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Prioritization and Sensitivity Analysis of the Inhalation/Ocular Hazard of Industrial Chemicals

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CONTENTS

ACRONYMS AND ABBREVIATIONS	v
EXECUTIVE SUMMARY	E-1
1 INTRODUCTION	1
2 SCIENTIFIC ANALYSIS OF THE INTERNATIONAL TASK FORCE-40 REPORT	2
2.1 Overview of ITF-40.....	2
2.2 Analysis of the ITF-40 Database	3
2.3 Analysis of the ITF-40 Algorithm	5
2.4 Conclusions Regarding ITF-40.....	6
3 THE NRL ICA PRIORITIZATION PROCESS.....	7
3.1 Development of the Database.....	8
3.1.1 Toxic (Operational) Hazard Score.....	9
3.1.2 Relative Probability Score	11
3.2 Generation of the Critical Inhalation/Ocular Toxic Hazard List	12
3.3 Class-based Analysis of the Critical Inhalation/Ocular Toxic Hazard List.....	14
3.3.1 NRL Class-based Approach	14
3.4 Downselection to the High Priority Inhalation/Ocular Toxic Hazard List	15
4 SENSITIVITY ANALYSIS	18
4.1 Vapor Pressure and Vapor Density Sensitivity Analysis.....	21
5 CONCLUSIONS	23
APPENDIX — Inhalation/Ocular Database and Prioritization Results.....	on CD

FIGURES

Fig. 1 — Flow chart of the NRL ICA prioritization process	8
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TABLES

Table 1 — Inaccuracies and Missing Data in the ITF-40 Database.....	4
Table 2 — ITF-40 Algorithm: Toxicity Bias.....	5
Table 3 — ITF-40 Algorithm: Flammability	6
Table 4 — ITF-40 Algorithm: Explosive Hazards	6
Table 5 — Inhalation Toxicity Scoring	9
Table 6 — Flammability Scoring.....	10
Table 7 — Reactivity Scoring.....	10
Table 8 — Physical State Scoring.....	11
Table 9 — Global Production Scoring.....	11
Table 10 — Global Distribution Scoring.....	12
Table 11 — Critical Inhalation/Ocular Hazard Chemical List	13
Table 12 — High Priority Inhalation/Ocular Hazard List	17
Table 13 — Critical Chemical List Without Stability Scoring	19
Table 14 — Critical Chemical List When Toxicity Score is Doubled.....	20
Table 15 — Toxicity/Physical State Scoring Criteria.....	21
Table 16 — Critical Chemical List Based on Vapor Pressure and Vapor Density Considerations.....	22
Table 17 — High Priority Inhalation/Ocular Hazard List Based on Vapor Pressure and Vapor Density Considerations.....	23

ACRONYMS AND ABBREVIATIONS

AEGL	Acute Exposure Guideline Levels
C	Degrees Centigrade
CAMEO	Computer-Aided Management of Emergency Operations (EPA and NOAA computer program available online)
CANUKUS	Canadian, United Kingdom, and United States
CAS	Chemical Abstracts Service
CBRN	Chemical, Biological, Radiological, and Nuclear
CFR	Code of Federal Regulations
CHPPM	(U.S. Army) Center for Health Promotion and Preventative Medicine
DHS	Department of Homeland Security
DWCP	Directory of World Chemical Producers
EPA	Environmental Protection Agency
F	Degrees Fahrenheit
ICA	Industrial Chemical Assessment
ITF	International Task Force
JPEO-CBD	Joint Program Executive Office for Chemical and Biological Defense Programs
JPM-IP	Joint Project Manager for Individual Protection
JPM-P	Joint Project Manager for Protection (New identity of JPM-IP)
JSGPM	Joint Service General Purpose Mask
L	Liters
mph	Miles per hour
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NOAA	National Oceanic and Atmospheric Administration
NRL	Naval Research Laboratory
OMPA	Octamethyl diphosphoramide
ppm	Parts per million
R&D	Research and Development
T&E	Test and Evaluation
TIC	Toxic Industrial Chemical

EXECUTIVE SUMMARY

This report has been prepared for the Joint Project Manager for Protection (JPM-P) of the Joint Program Executive Office for Chemical and Biological Defense Programs (JPEO-CBD) to document the risk management strategy adopted to prioritize and assess the potential inhalation/ocular hazard of industrial chemicals to the warfighter.

The Naval Research Laboratory (NRL) developed this prioritization using the scoring algorithm they derived and tested and the Industrial Chemical Assessment (ICA) database they created in 2008 (published in 2010). For the present study, NRL expanded the primary list of 430 chemicals in the NRL ICA database to include those in the Department of Homeland Security's "Chemicals of Interest" list (6 CFR 27, Appendix to Part 27). This added 221 more chemicals to the original list of 430. However, inhalation toxicity data could be found for only an additional 140 chemicals, bringing the total number of chemicals in the Inhalation/Ocular Toxicity portion of the updated database to 570 chemicals. The database containing the chemical and scoring data used to assess the inhalation/ocular hazard is detailed in this report's Appendix.

Many of the chemicals newly added to the database are fuels and explosives, which score low due to their reactivity, or specialty chemicals, which score low due to their low relative probability score. Compared to the previous (2010) analysis, the Critical Hazard Chemical List grew from 36 chemicals to 49 chemicals. However, after further downselection through class-based and reactivity analyses, the final High Priority Hazard List of 14 chemicals did not change from that in the previous analysis.

Table E1 shows the 14 high priority inhalation/ocular hazard chemicals in alphabetical order. It is important to note that this is not a threat list. These chemicals have been selected, through the prioritization process, as representative chemicals for research, development, test, and evaluation since it is not possible to test against all of the thousands of potentially hazardous industrial chemicals. Crucial to this prioritization is NRL's development and implementation of a class-based analysis to ensure that the threat of industrial chemicals is comprehensively assessed. Follow-on test and evaluation will be used to evaluate this list to confirm this class-based analysis and, if possible, further downselect these chemicals.

Not shown in this table are hydrogen cyanide and cyanogen chloride, which failed to score high enough to rank as critical chemicals. Hydrogen cyanide, a highly flammable and reactive liquid in its pure form, scored very low in the overall assessment. Cyanogen chloride was not selected because there are no known industrial uses of this chemical. It is recommended that these two chemicals be assessed as Chemical Warfare Agents if warranted.

This study focuses on the inhalation and ocular military hazards of industrial chemicals. This effort also lays out a common approach for assessment of percutaneous, oral, explosive, and radiological military hazards, which will be documented in follow-on reports.

Table E1 — High Priority Inhalation/Ocular Hazard Chemicals

#	Chemical	CAS Number
1	Ammonia	7664-41-7
2	Chlorine	7782-50-5
3	Formaldehyde E3	50-00-0
4	Hydrogen bromide	10035-10-6
5	Hydrogen chloride	7647-01-0
6	Hydrogen fluoride	7664-39-3
7	Hydrogen sulfide	7783-06-4
8	Mercury	7439-97-6
9	Methyl bromide	74-83-9
10	Nitric acid/Nitrogen Dioxide	7697-37-2
11	OMPA	152-16-9
12	Phosgene	75-44-5
13	Sulfur dioxide	7446-09-5
14	Sulfuric acid	7664-93-9

Oxidizer | Reducer | Volatile Organic | Pesticide/ Herbicide/Fungicide | Self-Polymerizer |

PRIORITIZATION AND SENSITIVITY ANALYSIS OF THE INHALATION/OCULAR HAZARD OF INDUSTRIAL CHEMICALS

1 INTRODUCTION

This report has been prepared for the Joint Project Manager for Protection (JPM-P)¹ of the Joint Program Executive Office for Chemical and Biological Defense Programs (JPEO-CBD) to document the risk management strategy adopted to prioritize and assess the potential inhalation and ocular hazard of industrial chemicals to the warfighter.

In 2008, the Naval Research Laboratory (NRL) was contracted by JPM-IP to analyze existing toxic industrial chemical (TIC) assessments, such as the International Task Force (ITF)-40 report,² and if necessary, co-develop an alternative approach to provide a comprehensive list of TICs that takes into account flammability, reactivity, and the different classes of chemicals in the world. The purpose was to develop a scientifically based prioritization of chemicals that selects a representative list of industrial chemicals for research and development (R&D) and test and evaluation (T&E) for chemical/biological defense systems.

NRL, in coordination with JPM-IP, compiled a database of 430 principal industrial chemicals and developed a scoring algorithm that allows for a documented, repeatable, systematic prioritization of these chemicals. This database and prioritization are called the NRL Industrial Chemical Assessment (NRL ICA).³ As part of this prioritization, a class-based analysis was used as a key risk mitigation strategy. The class-based analysis, defined by strict chemical terms relating to the formation or breaking of a chemical bond, was used to group like chemicals into representative classes, mitigating the risk of encountering chemicals in the operational environment that have not been assessed.

For the present study, the primary NRL ICA list of 430 chemicals was expanded to include those in the Department of Homeland Security's "Chemicals of Interest" list.⁴ The expanded list had 221 chemicals more than the original 430. However, inhalation toxicity data could be found for only an additional 140 chemicals, bringing the total number of chemicals in the Inhalation/Ocular Toxicity portion of the updated database to 570 chemicals. This report documents the prioritization process using the updated list of chemicals. The chemical and scoring data used to assess the inhalation/ocular hazard are detailed in the Appendix.

¹ Formerly known as the Joint Project Manager for Individual Protection, JPM-IP.

² "Industrial Chemical Prioritization and Determination of Critical Hazards of Concern, Technical Annex and Supporting Documents for International Task Force (ITF)-40, Industrial Chemical Hazards: Medical and Operational Concerns," U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) Report 47-EM-6154-03, November 2003, Aberdeen Proving Ground, MD (FOUO).

³ T.E. Sutto, "Toxic Industrial Chemicals: Global Assessment and Scientific Analysis," NRL/FR/6364--09-10,182, Naval Research Laboratory, Washington, DC, Feb. 2010.

⁴ 6 CFR Part 27, Chemical Facility Antiterrorism Standards, Appendix A to Part 27, DHS Chemicals of Interest. Published in the Federal Register Vol. 72, No. 223, Nov. 20, 2007, Part II, Department of Homeland Security.

Many of the newly added chemicals are fuels and explosives, which score low due to their reactivity, or specialty chemicals, which score low due to their low relative probability score. With the additional 140 chemicals, the Critical Hazard Chemical List (discussed in Section 3.2) has grown from 36 chemicals to 49 chemicals. However, after class-based analysis and reactivity assessment, the final High Priority List (discussed in Section 3.4) does not change from that derived in the 2010 analysis.

This study focuses on the inhalation and ocular military hazard of industrial chemicals. This effort also lays out a common approach for assessing hazards such as percutaneous, oral, explosive, and radiological military hazards, which will be documented in follow-on reports.

2 SCIENTIFIC ANALYSIS OF THE INTERNATIONAL TASK FORCE-40 REPORT

Previous efforts to assess the threat of industrial chemicals, such as the ITF-40 and its predecessor, the ITF-25, did not consider fully enough the reactive nature of chemicals and how this behavior might affect the actual hazard a particular chemical can present. This failure to consider how flammability and reactivity with moisture and air can alter a potential chemical threat led NRL/JMP-IP to develop their new assessment. This section considers the ITF-40 assessment in detail.

2.1 Overview of ITF-40

International Task Force-40 was one of several International Task Force groups established under the provisions of the 1994 Canadian, United Kingdom, and United States (CANUKUS) Memorandum of Understanding on Chemical and Biological Defense. The objective of the ITF-40 group was to develop appropriate tools for military commanders to identify, assess, and control risks from exposures caused by the release of industrial chemicals in a military situation, and to review, update, and enhance the methodology used by a previous group to prepare a prioritized list of industrial chemicals. The report published by the task force in 2003 is referred to here as the ITF-40 report, or simply ITF-40.

The ITF-40 database lists 1756 chemicals and uses National Fire Protection Association (NFPA) ratings for health (H), flammability (F), and instability (I) (formerly called reactivity, R)⁵ as factors for assessing the degree of hazard a chemical poses. However, the chemicals are not adequately assessed, both because of gaps in information in the database and because the ranking algorithm used does not fully take into account what is known about the behavior of a chemical in the operational environment. Because flammability and reactivity information is missing for many entries, or is present but not evaluated in an operational context, ITF-40 becomes primarily a toxicological ranking of chemicals. The quotations below from the ITF-40 report highlight these points.

Flammability and Instability (F and I) scores are used directly from US NFPA/USFA [NFPA-704, 2001; NFPA-325, 2001; USFA, 2001] which provides a 0-4 ranking scale (4 = greatest hazard). Where 'F' ranks were not available, information from published data was evaluated using the US NFPA criteria for ranking the parameter of flammability. (p. II-10)

Because the criteria used by the US NFPA for instability (formerly reactivity) were more subjective, when no ranking for instability had been allocated, this parameter was not included. (p. II-11)

⁵ NFPA 704 now uses the term Instability; older versions called this value Reactivity (NFPA 704 = Standard System for the Identification of the Hazards of Materials for Emergency Response).

Many thousands of chemicals cannot be adequately assessed because there is not adequate data available – this includes (acute) toxicity data, but the data gaps appear to be even more significant regarding the physical and chemical properties. (p. ES-v)

The ITF-40 report did not make use of the large amount of data regarding flammability and reactivity that is readily available in 150+ years of published scientific literature. The following sections look more closely at the ITF-40 database and algorithm.

2.2 Analysis of the ITF-40 Database

The ITF-40 data set contains numerous omissions and disagreements with current NFPA ratings for many of the higher-ranking chemicals. Table 1 shows some of these discrepancies. The chemicals listed in the table represent the Threshold and Objective chemicals for one of the more recent Joint Service General Purpose Mask (JSGPM) filter systems. Columns T, U, and V are values compiled from Appendix A of the ITF-40 report. Columns X, Y, and Z show the corrected NFPA values from CAMEO version 1.2.2, the U.S. Environmental Protection Agency (EPA)/National Oceanic and Atmospheric Administration (NOAA) Computer-Aided Management of Emergency Operations program. The values in red indicate corrections or missing values as compared to the ITF-40 database. A simple tally of NFPA differences and omissions reveals that the ITF-40 database is only 42% accurate for these high-ranking chemicals: 54 of 93 entries are different or missing. Only 15 of the 31 chemicals have all three NFPA values listed. Although some change in NFPA values is to be expected, this high number of errors and omissions in the ITF-40 report provided strong impetus to compile a more accurate and complete database.

These errors result in the omission or erroneous evaluation of several hazardous chemicals in the ITF-40 assessment. For instance, hydrogen sulfide was not originally listed as a high priority chemical, since the health score in the ITF-40 database is given as 2; however, the correct health score is 4. It was added to the high priority list, but only due to the erroneous assumption that “sulfur fires” generate hydrogen sulfide. (Combustion of sulfur results in the formation of sulfur dioxide, just as combustion of carbon results in the generation of carbon dioxide.⁶) Similarly, the ITF-40 report points out that hydrogen bromide is not selected as a priority inhalation hazard due to its low scores, except that again the health score is incorrectly given as 1, when in fact it is 3. In the case of arsine, the health factor listed is again incorrect (3 instead of 4) and there are no flammability or instability ratings, even though the high flammability and reactivity of arsine have long been known.⁷ In another example, the data for diborane in the ITF-40 database is correct, but the high flammability and reactivity scores do not affect its being listed as a high priority inhalation hazard, even though it has long been known to explosively decompose upon exposure to air.⁸ The peer-reviewed scientific literature documents decades of research that went into developing and working with industrial chemicals, but this information does not appear to have been fully used in the ITF-40 database.

⁶ S.A. Carn and A.J. Krueger, “Fire at Iraqi sulfur plant emits SO₂ clouds detected by Earth Probe TOMS,” *Geophysical Research Letters* 31 (2004) L19105, doi:10.1029/2004GL020719.

⁷ A. Hantzsch and H. Hibbert, “Concerning addition products of trialkyl-phosphine, -arsine and -stibene,” *Berichte der Deutschen Chemischen Gesellschaft* 40 (1907) 1508-1519.

⁸ E.L. Poling and H.P. Simons, “Explosive reaction of diborane in dry and water-saturated air,” *Industrial and Engineering Chemistry* 50:11 (1958) 1695-1698.

Table 1 — Inaccuracies and Missing Data in the ITF-40 Database

The Threshold and Objective Chemicals of the JSGPM System	T	U	V	ITF-40 HAZARD SCORE	X	Y	Z
	NFPA VALUES FROM USACHPPM 47-EM-6154-03				ACTUAL CURRENT NFPA VALUES-CORRECTIONS IN RED		
COMPOUND	H	F	I		H	F	I
Acrolein	4	3	3	4	4	3	3
Acrylonitrile	4	3	2	4	4	3	2
Allyl alcohol	4	3	1	4	4	3	1
Ammonia (anhydrous)	1	1	0	1	3	1	0
Arsine	3			3	4	4	2
Boron trichloride*	4	2	1	4	3	0	2
Boron trifluoride*	3			3	4	0	1
Carbon disulfide	2	4	0	4	3	4	0
Chlorine	2			2	4	0	0
Diborane	4	4	3	4	4	4	3
Ethylene oxide	3	4	3	4	3	4	3
Fluorine	3			3	4	0	4
Formaldehyde	3			3	3	4	0
Hydrazine, anhydrous	4	4	3	4	4	4	3
Hydrogen bromide (anhyd.)	1			1	3	0	0
Hydrogen chloride (anhyd.)	4			4	3	0	1
Hydrogen cyanide (anhyd.)	4	4	1	4	4	4	2
Hydrogen fluoride (anhyd.)	4			4	4	0	1
Hydrogen sulphide	2	4	0	4	4	4	0
Methyl isocyanate	4	3	2	4	4	3	2
Methyl mercaptan	4	4	1	4	4	4	1
Nitric acid	3	0		3	4	0	1
Nitrogen dioxide	3			3	3	0	0
Phosgene	3			3	4	0	1
Phosphine	2	4	2	4	4	4	2
Phosphorus trichloride	4	0	0	4	4	0	2
Sulphur dioxide	2			2	3	0	0
Sulphur trioxide*	4			4	3	0	2
Sulphuric acid	4			4	3	0	2
Toluene diisocyanate				0	3	1	3
Tungsten hexafluoride*	2			2	4	0	1

2.3 Analysis of the ITF-40 Algorithm

The algorithm used by ITF-40 ranks health, flammability, and instability in the following manner to assess the hazard severity of a chemical:

The final hazard severity rank given to a chemical represents the highest score it receives amongst the three hazard categories: Health (toxicity) 1-4, Flammability 0-4, or Instability 0-4.

For the purposes of designing and evaluating filter masks or other individual protection equipment, this simple ranking system does not provide enough discrimination between the different types of operational hazards to the warfighter and does not account for the effects of chemical behavior.

This ranking system also results in a bias toward toxicity data. For example, for almost half of the chemicals listed in Table 1 (14 out of 31), only the health value is available — flammability and instability data are missing entirely. For many of the other chemicals listed, only the health factor affects the score, as displayed in the small sample in Table 2. For a high-toxicity chemical, the flammability and instability, whether high or low, do not factor into the score, even though these properties may affect the true operational hazard of a toxic chemical. For a lower-toxicity chemical, a high flammability or instability score gives the chemical a high total score, but this score might not be relevant to the evaluation of filter masks, for example, if the main danger is explosive rather than toxic. A few examples of this insufficient ranking system are provided below.

Table 2 — ITF-40 Algorithm: Toxicity Bias

The Threshold and Objective Chemicals of the JSGPM System	NFPA VALUES USED FROM CHPPM 47-EM-6154-03			ITF-40 HAZARD SCORE
	H	F	I	
COMPOUND	H	F	I	ITF-40 HAZARD SCORE
Acrolein	4	3	3	4
Acrylonitrile	4	3	2	4
Allyl alcohol	4	3	1	4
Ammonia (anhydrous)	1	1	0	1
Arsine	3			3
Boron trichloride*	4	2	1	4

A chemical that rapidly explodes on contact with oxygen gets a very high ITF-40 score, as it is an explosive hazard to the warfighter, but an equally toxic chemical with lower flammability or instability ratings gets a lower score even though it may pose an even greater hazard via inhalation. For example, carbon tetrachloride and carbon disulfide are both classified as simple, volatile organics, and both have a health factor of 3 (see Table 3 and note again the errors in the ITF-40 database). Carbon disulfide is highly flammable (NFPA: “Ignition temperature dangerously low: 212 °F. Vapors may be ignited by contact with ordinary light bulb.”), while carbon tetrachloride is non-flammable. Therefore, carbon disulfide receives a higher hazard ranking (“catastrophic”) than carbon tetrachloride (“critical”). However, because carbon tetrachloride is stable and non-flammable, it is more likely to create a

significant inhalation hazard in the operational environment. The ITF-40 algorithm does not take into account this physical behavior in its hazard ranking, so does not select carbon tetrachloride as a priority hazard chemical.

Table 3 — ITF-40 Algorithm: Flammability

COMPOUND	ITF-40 NFPA Values			ITF-40 HAZARD SCORE	HAZARD CATEGORY Formula	ACTUAL NFPA VALUES-CORRECTIONS IN RED		
	H	F	I			H	F	I
Carbon tetrachloride	3			3	Critical	3	0	0
Carbon Disulfide	2	4	0	4	Catastrophic	3	4	0

In another example, compounds with the highest ITF-40 hazard category rating of catastrophic include chemicals that are explosive hazards but not toxicological hazards. Two examples are shown in Table 4. Hydrogen is rated as catastrophic due to its highly flammable nature — and indeed this poses a significant threat — but such an assessment is not applicable for CBRN (chemical, biological, radiological, and nuclear) systems designed to provide protection against toxic, not explosive, hazards. The same high hazard assessment would be true for TNT, except that the ITF-40 database is again incorrect. The correct NFPA values, shown in red, indicate that TNT should also be listed as catastrophic by ITF-40; however, due to errors in the database, this chemical is incorrectly assessed as negligible.

Table 4 — ITF-40 Algorithm: Explosive Hazards

COMPOUND	ITF-40 NFPA Values			ITF-40	Hazard Category	Actual NFPA Values Red= Errors			Corrected	Hazard Category
	H	F	I			H	F	I		
TNT	1			1	Negligible	2	4	4	4	Catastrophic
Hydrogen	0	4	0	4	Catastrophic	0	4	0	4	Catastrophic

2.4 Conclusions Regarding ITF-40

Analysis of the ITF-40 report led to the following conclusions:

1. The data set is incomplete and therefore cannot be used to adequately analyze the global threat of TICs in the operational environment. Although over 1700 chemicals are listed in the database, complete data (scores for health, flammability, reactivity, physical state, and number of countries producing the chemical) are given for only 420 chemicals.
2. Data regarding health, flammability, and reactivity is incorrect for many of the highest ranked chemicals.

3. The algorithm used to rank each chemical results in a primarily toxicological assessment of TICs, without considering the ability of the chemical to manifest a threat in the operational environment. It does not differentiate between high toxicity, high flammability, and high reactivity, or consider how the combination of chemical properties affects their hazard potential.
4. The lack of a class-based analysis founded on basic chemical properties results in a prioritization that cannot be said to comprehensively address the global threat of industrial chemicals. Because there are thousands of chemicals produced and distributed globally, a class-based assessment is a required part of the prioritization process to ensure that the priority list also represents those thousands of other chemicals.

Based on this analysis, JPM-IP and NRL compiled the new NRL ICA database and devised an alternate scoring algorithm and prioritization system to reassess the threats posed by toxic industrial chemicals.

3 THE NRL ICA PRIORITIZATION PROCESS

The prioritization methodology developed in 2008 by NRL and JPM-IP includes criteria to account not only for toxicity but also for the environmental behavior of industrial chemicals. As discussed above, the ITF-40 report does not adequately discriminate between toxic threats and explosive/unstable hazards, so does not adequately describe industrial chemicals for the purposes of chemical/biological defense programs.

The NRL/JPM-IP prioritization approach consists of the following steps:

- Step 1: Development of the NRL ICA database
- Step 2: Generation of a Critical Inhalation/Ocular Hazard List
- Step 3: Class-based analysis of prioritization results
- Step 4: Downselection to a High Priority Inhalation/Ocular Hazard List
- Step 5: Sensitivity analysis of the prioritization results

These steps are discussed in detail in the sections that follow. Figure 1 illustrates the overall process.

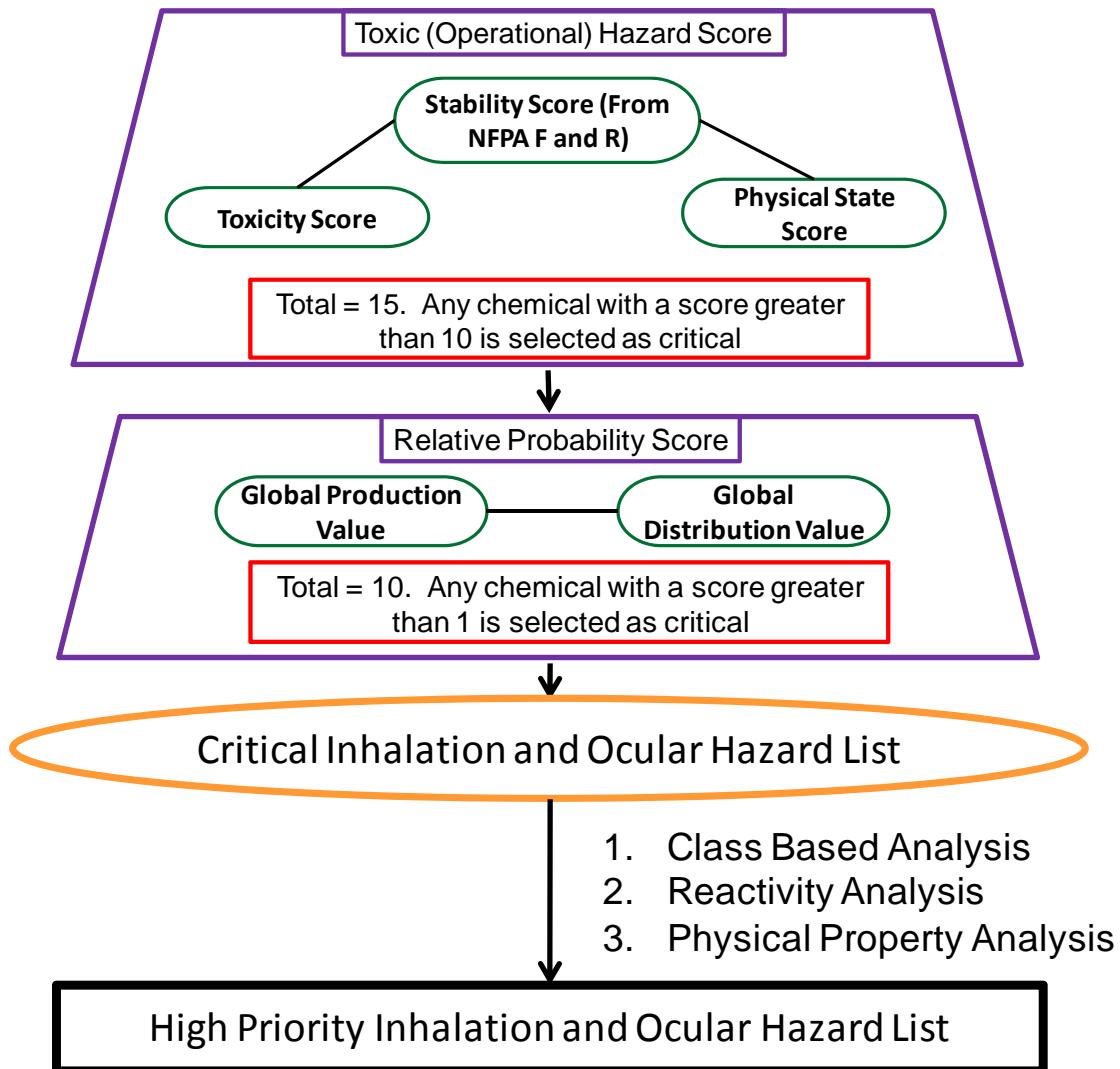


Fig. 1 — Flow chart of the NRL ICA prioritization process

3.1 Development of the Database

Because the analysis of the ITF-40 database revealed missing or incorrect data, the NRL ICA developed a new, comprehensive database, which for the assessment of inhalation/ocular hazards, contains 570 chemicals. Included in the NRL-ICA database are the raw data required to perform the prioritization (see the Appendix). The primary source for most of the chemical data is the EPA/NOAA CAMEO program, version 1.2.2. When necessary, this data is augmented by the 2007 Merck Index and peer-reviewed scientific literature. Chemicals are scored/prioritized according to their toxicity, stability, physical state, and production and distribution characteristics.

3.1.1 Toxic (Operational) Hazard Score

Each chemical is given a score from 0 to 5 as a means of ranking its toxicity, stability, and physical state. These scores are then combined to generate the Toxic (Operational) Hazard Score, which ranges from 0 to 15.

3.1.1.1 Toxicity Score

The inhalation toxicity of each chemical is based primarily on the EPA's AEGL-3 1-hr values in parts per million (ppm). For a chemical that does not have this data, the toxicity value is assigned based upon the CHPPM protocol.⁹ The 570 chemicals display a wide range of toxicity values. To develop a meaningful scoring system, these values are placed on a logarithmic scale. This distribution provides clear ranges of toxicity values for assigning scores ranging from 0 to 5, where 5 is the most toxic. Table 5 shows the scoring protocol.

Table 5 — Inhalation Toxicity Scoring

Toxicity Range (in ppm)	Toxicity Score
Inhalation Toxicity \leq 1	5
$1 < \text{Inhalation Toxicity} \leq 10$	4
$10 < \text{Inhalation Toxicity} \leq 100$	3
$100 < \text{Inhalation Toxicity} \leq 1000$	2
$1000 < \text{Inhalation Toxicity} \leq 2000$	1
$2000 < \text{Inhalation Toxicity}$	0

3.1.1.2 Stability Score

Chemical stability scoring is used to assess reactivity and flammability of a chemical. Highly reactive or flammable chemicals receive a low score. The basis for this scoring is that high reactivity and flammability pose less of a toxic hazard and more of an explosive hazard.

Reactivity is considered because an industrial chemical may react with the atmosphere or with water present in the atmosphere, and then either decompose — as in the case of diborane, which is unstable in air and rapidly breaks down to boric oxides and hydrogen, which is ignited by the heat of decomposition; or change to an alternate threat — as in the case of phosphoryl chloride, which generates an inhalation hazard of hydrogen chloride. Flammability is considered since highly flammable chemicals represent more of an explosive hazard given the multiple ignition sources in the operational environment. An example of this is ethylene oxide, whose explosive potential has been used in the battlefield in the form of fuel air bombs.

⁹ USACHPPM, "Health-Based Chemical Vapor Concentration Levels for Future Systems Acquisition and Development," USACHPPM Tech. Report No. 64-FF-07Z2-07, U.S. Army Center for Health Promotion and Preventative Medicine, Aberdeen Proving Ground, MD, Feb. 2008.

The chemical stability score is calculated using NFPA reactivity (R) and flammability (F) values. The NFPA values of flammability and reactivity increase as the reactivity and flammability of a chemical increase; therefore, in the prioritization process, reactivity and flammability values are placed on an inverted scale to agree with the assessment that increased flammability and reactivity should decrease the toxic operational score of a chemical. Because toxicity is assessed on a 5-point scale, the NFPA values are also placed on a 5-point scale. This scoring protocol is shown in Table 6 and Table 7. The stability score of each TIC is calculated by averaging the flammability and reactivity scores.

Table 6 — Flammability Scoring

NFPA Flammability Value	Flammability Score → $(4-F) \times 1.25$
0	5
1	3.75
2	2.50
3	1.25
4	0

Table 7 — Reactivity Scoring

NFPA Reactivity Value	Reactivity Score → $(4-R) \times 1.25$
0	5
1	3.75
2	2.50
3	1.25
4	0

3.1.1.3 Physical State Score

The parameter of physical state is used to assess the volatility of a chemical. It should be noted, however, that since many industrial chemicals react with the environment, volatility alone does not necessarily determine downwind hazards. For this scoring, the physical state of a chemical is determined at ambient conditions (1 atm and 70 °F or 21 °C). See Table 8.

Table 8 — Physical State Scoring

Physical State	Physical State Score
Gas	5
Liquid	2.5
Solid	1

3.1.2 *Relative Probability Score*

One of the most problematic aspects of assessing the potential hazard of industrial chemicals in the operational environment lies in the great uncertainty surrounding the global chemical industry. Although there are several databases that allow an estimation of how much of a certain chemical is manufactured, these consist of only voluntarily submitted data with no follow-on inspections to verify the data. Since a detailed, thorough inspection of each chemical plant is not feasible, there remains a significant degree of uncertainty in determining the exact probability of encountering any one chemical. Overall, a pseudo-probability function based on the production amount and distribution of a chemical is used to determine a total probability score. To represent global production amounts of a chemical, the total number of countries producing a chemical is used. To estimate the global distribution of a chemical, the total number of reported distribution sites for a chemical is used.

Here, data from the Directory of World Chemical Producers (DWCP) is used to determine both production and distribution scores. These two scores are then added to form the Relative Probability Score, which ranges from 0 to 10.

3.1.2.1 **Global Production Score**

The global production score is used to account for the bulk quantities of TICs being produced. The data regarding the number of countries involved in the production of a specific TIC is maintained in the DWCP and is used to assign a production score from 0 to 5, as shown in Table 9.

Table 9 — Global Production Scoring

Numbers of Producing Countries	Production Score
# of Countries \geq 50	5
$40 \leq$ # of Countries $<$ 50	4
$30 \leq$ # of Countries $<$ 40	3
$20 \leq$ # of Countries $<$ 30	2
# of Countries \leq 20	1
# of Countries \leq 10	0

3.1.2.2 Global Distribution Score

The global distribution score is based on the number of global production and distribution sites appearing in the DWCP. This approach ensures accountability for the higher availability of certain chemicals regardless of the quantity produced. The scoring criteria are shown in Table 10.

Table 10 — Global Distribution Scoring

Numbers of Sites Chemical is Available	Distribution Score
# of Sites \geq 100	5
$50 < \# \text{ of Sites} < 100$	4
$10 < \# \text{ of Sites} \leq 50$	3
$5 < \# \text{ of Sites} \leq 10$	2
$0 < \# \text{ of Sites} \leq 5$	1
# of Sites = 0	0

3.1.2.3 Threat Score

A separate threat score is developed to account for actual incident data or other threat information for particular TICs. This score is placed in the probability section of the database but is not used to determine the Relative Probability Score, due to the subjective nature of this data.

3.2 Generation of the Critical Inhalation/Ocular Toxic Hazard List

The next step in the prioritization approach is to use the previously described scores to generate a critical list. Any chemical with a Toxic (Operational) Hazard Score greater than 10 and a Relative Probability Score greater than 1 is designated as critical. Table 11 shows the Critical Inhalation/Ocular Hazard Chemical List.

This critical list contains 13 more chemicals than the critical list generated in the 2010 analysis (which used a database of 430 chemicals). The new critical chemicals are the following:

Boron tribromide	Methylphenyldichlorosilane
Boron trichloride	Oleum
Chlorine trifluoride	Silicon tetrafluoride
Chlorosulfonic acid	Sulfur tetrafluoride
Germanium tetrafluoride	Thionyl chloride
Hexafluoroacetone	Tungsten hexafluoride
Hydrogen iodide	

Table 11 — Critical Inhalation/Ocular Hazard Chemical List

Rank	Chemical	CAS Number	Toxic (Operational) Hazard Score	Probability Section		Total Score
				Relative Probability Score	Threat Scores	
1	Chlorine	7782-50-5	13.00	10.00	5.00	28.00
2	Hydrogen chloride	7647-01-0	12.38	10.00	0.50	22.88
3	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	11.75	10.00	0.50	22.25
4	Ammonia	7664-41-7	10.38	10.00	5.00	25.38
5	Sulfuric acid	7664-93-9	10.25	10.00	2.50	22.75
6	Nitric acid	7697-37-2	10.50	9.00	0.50	20.00
7	Hydrogen fluoride	7664-39-3	12.38	7.00	2.50	21.88
8	Sulfur dioxide	7446-09-5	13.00	6.00	0.00	19.00
9	Hydrogen bromide	10035-10-6	12.00	5.00	0.00	17.00
10	Phosphorus trichloride	7719-12-2	10.25	5.00	0.00	15.25
11	Phosgene	75-44-5	14.38	4.00	0.50	18.88
12	Nitric oxide #(I)	10102-43-9	13.00	4.00	0.00	17.00
13	OMPA	152-16-9	12.50	4.00	0.50	17.00
14	Boron trifluoride *	7637-07-2	12.38	4.00	0.00	16.38
15	Mercury	7439-97-6	11.50	4.00	5.00	20.50
16	Bromine	7726-95-6	11.50	4.00	0.00	15.50
17	Chlorine dioxide	10049-04-4	11.50	4.00	0.00	15.50
18	Oleum-E3*	8014-95-7	11.50	4.00	0.00	15.50
19	Methyl bromide	74-83-9	11.38	4.00	0.50	15.88
20	Phosphoryl Trichloride	10025-87-3	11.25	4.00	0.50	15.75
21	Fluorotrichloromethane #(T3)	75-69-4	11.00	4.00	0.00	15.00
22	Toluene-2,4-diisocyanate	584-84-9	10.63	4.00	0.00	14.63
23	Hydrogen sulfide	7783-06-4	10.50	4.00	0.50	15.00
24	Molybdophosphoric acid	51429-74-4	10.50	4.00	0.50	15.00
25	Fluorine	7782-41-4	10.50	4.00	0.00	14.50
26	Malathion * #(T3)	121-75-5	10.50	4.00	0.00	14.50
27	Boron trichloride T3	10294-34-5	10.25	4.00	0.00	14.25
28	Tungsten hexafluoride-T3*	7783-82-6	11.75	3.00	0.00	14.75
29	Hexafluoroacetone E3	684-16-2	11.75	3.00	0.00	14.75
30	Silicon tetrafluoride-T3*	7783-61-1	11.75	3.00	0.00	14.75
31	Acetylene tetrabromide #(T3)	79-27-6	10.88	3.00	0.00	13.88
32	o-Anisidine * #(T3)	90-04-0	10.88	3.00	0.00	13.88
33	Sulfur trioxide	11/9/7446	10.75	3.00	0.00	13.75
34	Hydrogen iodide T3	10034-85-2	10.75	3.00	0.00	13.75
35	Parathion *	56-38-2	10.63	3.00	0.50	14.13
36	Ethylene dibromide	106-93-4	10.50	3.00	0.00	13.50
37	Phosphine	7803-51-2	10.25	3.00	0.50	13.75
38	Chlorosulfonic acid E3	7790-94-5	10.25	3.00	0.00	13.25
39	Boron tribromide T3	10294-33-4	10.25	3.00	0.00	13.25
40	Thionyl chloride-E3*	7719-09-715	10.25	3.00	0.00	13.25
41	Nitrogen dioxide	10102-44-0	13.00	2.00	0.50	15.50
42	Sulfur tetrafluoride-T3*	7783-60-0	12.75	2.00	0.00	14.75
43	Chlorine trifluoride E3	7790-91-2	12.13	2.00	0.00	14.13
44	Germanium tetrafluoride T3	7783-58-6	11.75	2.00	0.00	13.75
45	Arsine	7784-42-1	11.25	2.00	0.50	13.75
46	Pentachlorophenol * #(T3)	87-86-5	11.00	2.00	0.00	13.00
47	1,1,2,2-Tetrachloroethane #(T3)	79-34-5	10.50	2.00	0.00	12.50
48	Azinphosmethyl * #(T3)	86-50-0	10.38	2.00	0.50	12.88
49	Methylphenyldichlorosilane-T3*	149-74-6	10.25	2.00	0.00	12.25

3.3 Class-based Analysis of the Critical Inhalation/Ocular Toxic Hazard List

The next step in the prioritization process is to group the critical chemicals into like classes, to be followed by a reactivity and physical state analysis to allow further downselection.

3.3.1 *NRL Class-based Approach*

To mitigate the uncertainty in the probability section of the database, a class-based analysis is used to group the chemicals in the critical list. Part of the downselection process is to then select the highest scoring chemical within each class. The purpose is to ensure that representatives of all of the main chemical classes are selected for the high priority list; although a chemical may score low due to a low Toxic (Operational) Hazard Score or low Probability Score, it will still be represented in the final list. The class-based analysis is crucial to ensure that the risk management aspects of the prioritization approach select a high priority list of chemicals that can be used to represent the vast diversity of chemicals found in the global chemical industry.

The class-based analysis developed by NRL is based on fundamental chemical reactivity principles. Since any chemical reaction is based upon the flow of electrons to form or break bonds, using terms based on the following definitions provides definitive, chemistry-based classes. The five principal classes of chemicals are described below.

- **Oxidizers:** An oxidizer is a chemical that readily accepts electrons in a chemical reaction. This class contains compounds typically considered as “acid-gas forming,” such as hydrogen chloride, and also chlorine, fluorine, hydrogen peroxide, and ozone.
- **Reducers:** This class of compounds consists of chemicals that readily donate electrons in a chemical reaction. This class includes the “hydride family,” such as ammonia, phosphine, and arsine, as well as hydrazines and amines. Additionally, compounds that fall into this class include many reactive metals, such as sodium, arsenic, thallium, and mercury.
- **Volatile Organic Compounds:** These are simple organic compounds addressed separately as specific types of both inhalation hazards and contact hazards (certain compounds of this class are strongly degrading to plastics and coatings). They are widely produced and used in the production industry and have a high vapor density. This class includes compounds such as methylene chloride, benzene, carbon disulfide, and carbon tetrachloride.
- **“ANY”-icides:** This class of compounds includes pesticides, herbicides, and poisons developed for various agricultural or industrial uses. Through decades of undocumented production and transport of these compounds, the hazard posed by these compounds globally is difficult to quantify. Many of them are among the most toxic compounds listed in the NIOSH Pocket Guide to Chemical Hazards, and they are stable and readily dispersed. Therefore, this class of compounds is addressed separately.
- **Self-polymerizers:** Polymerizable compounds are capable of undergoing self-reactions that release energy. Some polymerization reactions generate a great deal of heat. The products of polymerization reactions are generally less reactive than the starting materials. The reaction tendency of these compounds makes them behave differently in the environment and with other materials when compared to simple organic compounds such as carbon tetrachloride or carbon disulfide. Typically, these compounds are flammable and react with both oxidizers and reducers.

This class includes phosgene, cyanogen chloride, formaldehyde, acrylonitrile, and methyl isocyanate.

It should be noted that for the purposes of test and evaluation, other class-based approaches are possible.

3.4 Downselection to the High Priority Inhalation/Ocular Toxic Hazard List

Building on the class-based analysis, chemical and environmental reactivity and byproducts are next considered, to downselect to a high priority list of chemicals. Reactions and byproducts — especially of chemicals that readily react with air or water — might result in a reduced health hazard, a different type of hazard, or an additional hazard being present rather than that of the parent compound. Chemicals that undergo such a transformation should not be selected for the high priority list.

Through class-based analysis and reactivity assessment of the critical inhalation/ocular hazard list, certain chemicals are not selected as high priority inhalation and ocular hazards for the reasons documented below. The chemical analysis is based upon the environmental fate data.

1. Nitric oxide is not selected because it converts to nitrogen dioxide in the operational environment; therefore, nitric acid and nitrogen dioxide are paired in the list. Real-world incidents have shown that regardless of the grade of nitric acid (how much nitrogen dioxide is dissolved in it), the acid rapidly reacts with the environment to generate red clouds of nitrogen dioxide. Often this reaction is so vigorous that the red fumes of nitrogen dioxide are misinterpreted as the nitric acid being “on fire.” This nitrogen dioxide then reacts with atmospheric water to generate a mixed threat of nitrogen dioxide and aerosolized nitric and nitrous acids.
2. Boron trifluoride is not selected since in the operational environment, it rapidly decomposes to hydrogen fluoride, which is already selected for the oxidizer class.
3. Phosphoryl trichloride is not selected since in the operational environment, this compound generates fumes of hydrogen chloride, which is already selected for the oxidizer class.
4. Chlorine dioxide is not selected since in the operational environment, it will rapidly generate hydrogen chloride, which is already selected for the oxidizer class.
5. Bromine and fluorine are not selected since they are isostructural with chlorine, which is already selected for the oxidizer class.
6. Phosphorus trichloride is not selected since in the operational environment, this compound generates fumes of hydrogen chloride, which is already selected for the oxidizer class.
7. Fluorotrichloromethane is not selected since methyl bromide is selected as the highest scoring of the volatile organic compound class.
8. Molybdophosphoric acid is not selected since other more volatile, toxic, and prevalent oxidizers are already selected.
9. Toluene-2,4-diisocyanate is not selected since other representatives are already selected for the self-polymerizer class.

10. Malathion, parathion, and azinphosmethyl are not selected since OMPA is selected to represent the pesticide class.
11. Acetylene tetrabromide, ethylene dibromide, and 1,1,2,2-tetrachloroethane are not selected since methyl bromide is selected as the highest scoring volatile organic compound.
12. o-Anisidine, arsine and phosphine are not selected since other higher scoring compounds in the reducing class are already selected. It should be noted that phosphine and arsine are isostructural with ammonia, but far less stable in the operational environment and more flammable.
13. Sulfur trioxide and pentachlorophenol are not selected since other representatives of the oxidizer class are already selected. It should be noted that sulfur trioxide converts to sulfuric acid in the operational environment. Additionally, sulfuric acid in aerosol form is selected as the representative inhalation/ocular hazard for multiple species such as sulfur trioxide, a variety of oleum concentrations, and “fuming” sulfur acid. For all of these compounds, the inhalation/ocular hazard in the operational environment is that of sulfuric acid in aerosol form.
14. Due to the expansion of the database, several additional chemicals appear on the critical list:
 - a. Boron tribromide rapidly breaks down to generate HBr, which is already on the list.
 - b. Boron trichloride, methylphenyldichlorosilane, and thionyl chloride all rapidly break down and generate HCl.
 - c. Chlorine trifluoride, germanium tetrafluoride, silicon tetrafluoride, sulfur tetrafluoride, and tungsten hexafluoride all rapidly break down and generate HF.
 - d. Hexafluoroacetone and methylphenyldichlorosilane are low scoring members of the simple organic class and as such are not selected.
 - e. Hydrogen iodide is a low scoring member of the oxidizing class; HBr, HCl, and HF are already selected to represent this class.
 - f. Oleum and chlorosulfonic acid both break down upon release to generate sulfuric acid, which is already selected. Chlorosulfonic acid will also generate HCl, which is also already selected.

Based upon the above analysis, the final High Priority Inhalation/Ocular Hazard list is generated (Table 12). This list is unchanged from the list derived in the 2010 analysis. Note that scoring within this high priority list is not of primary importance, and the chemicals are simply listed in alphabetical order.

Table 12 — High Priority Inhalation/Ocular Hazard List

#	Chemical	CAS Number
1	Ammonia	7664-41-7
2	Chlorine	7782-50-5
3	Formaldehyde E3	50-00-0
4	Hydrogen bromide	10035-10-6
5	Hydrogen chloride	7647-01-0
6	Hydrogen fluoride	7664-39-3
7	Hydrogen sulfide	7783-06-4
8	Mercury	7439-97-6
9	Methyl bromide	74-83-9
10	Nitric acid/Nitrogen Dioxide	7697-37-2
11	OMPA	152-16-9
12	Phosgene	75-44-5
13	Sulfur dioxide	7446-09-5
14	Sulfuric acid	7664-93-9

Oxidizer Reducer Volatile Organic Pesticide/ Herbicide/Fungicide Self-Polymerizer

Follow-on test and evaluation will be used to evaluate this list to confirm the class-based analysis used in the assessment and, if possible, further downselect these chemicals.

Note that hydrogen cyanide and cyanogen chloride are not on these lists: hydrogen cyanide scores low due to its high flammability and reactivity, and cyanogen chloride scores low because it is not a commonly used industrial chemical. These two chemicals are selected as alternates for this list, but would be more properly considered as Schedule 3 Chemical Warfare Agents.

4 SENSITIVITY ANALYSIS

The final part of this prioritization and analysis is to examine how variations in the scoring methodology could affect the final high priority list. To that end, several variations were undertaken to alter the scoring algorithm used to assess the chemicals.

1. Removal of the stability score (Section 3.1.1.2) to assess based only on toxicity.
2. Doubling of the toxicity score (Section 3.1.1.1) to emphasize toxicity concerns.
3. Removal of the threat score (Section 3.1.2.3).
4. Basing the physical state score (Section 3.1.1.3) on the vapor pressure and/or vapor density, since the ability of a chemical to manifest an inhalation/ocular hazard is dependent on these two physical properties. Although it has long been assumed that the ratio of vapor pressure to toxicity is a critical parameter in the assessment of the potential inhalation hazard of a chemical, this simplistic view fails to consider the reactive nature of many industrial chemicals. For instance, sulfuric acid, at first glance, should create minimal vapor hazard, because it is a highly viscous and high boiling point liquid (near 300 °C). However, when released in an accident, the acid rapidly reacts with organic material and begins to boil. Thus, basing the potential inhalation hazard solely on vapor pressure would ignore the reactive nature of many industrial chemicals. Because many of these reactive compounds generate gases with very high relative vapor density, physical state scoring in this variation is based on both vapor pressure (between 60 and 80 °F) and vapor density (between 60 and 80 °F). To accomplish this portion of the sensitivity analysis, extensive literature review was required to collect these two data points. Of the 570 chemicals in the inhalation/ocular hazard database, vapor pressure and vapor density values could be found for only 534 chemicals. Thus, for this portion of the sensitivity analysis, the database is limited to 534 chemicals.

Shown on the following pages are the highest scoring chemicals from these different approaches; the detailed changes to the database are shown in the Appendix.

To derive the critical list when the stability score is removed, the threshold for the Toxic (Operational) Hazard Score is lowered from 10 to 7.5, since the highest total for this section is now 10 instead of 15. The threshold for the Relative Probability Score remains the same (greater than 1). With this variation in the prioritization, some of the more significant changes are that compounds known to be extremely unstable or explosive, such as diborane and methyl mercaptan, appear in the critical list now (Table 13). These results begin to resemble the ITF-40 results, in which toxicity was the key evaluation factor.

Table 13 — Critical Chemical List Without Stability Scoring

Rank	Chemical	CAS Number
1	Chlorine	7782-50-5
2	Hydrogen chloride	7647-01-0
3	Formalin	50-00-0
4	Hydrogen fluoride	7664-39-3
5	Phosgene	75-44-5
6	Sulfur dioxide	7446-09-5
7	Chlorine dioxide	10049-04-4
8	Boron trichloride T3	10294-34-5
9	Hydrogen sulfide	7783-06-4
10	Phosphine	7803-51-2
11	Arsine	7784-42-1
12	Nitric oxide #(I)	10102-43-9
13	Boron trifluoride *	7637-07-2
14	Fluorine	7782-41-4
15	Dichlorosilane T3	4109-96-0
16	OMPA	152-16-9
17	Phosphoryl Trichloride	10025-87-3
18	Toluene-2,4-diisocyanate	584-84-9
19	Tungsten hexafluoride-T3*	7783-82-6
20	Hexafluoroacetone E3	684-16-2
21	Silicon tetrafluoride-T3*	7783-61-1
22	Parathion *	56-38-2
23	Sulfur tetrafluoride-T3*	7783-60-0
24	Chlorine trifluoride E3	7790-91-2
25	Diborane	19287-45-7
26	Nitrogen dioxide	10102-44-0
27	Germanium tetrafluoride	7783-58-6
28	Methyl mercaptan	74-93-1
29	Iron, pentacarbonyl- T3	13463-40-6

To derive the critical list when the toxicity score is doubled, the threshold for the Toxic (Operational) Hazard Score is raised from 10 to 15, since the highest total for this section is now 20. The threshold for the Relative Probability Score remains the same (greater than 1). With this variation, many more of the “ANY”-icide class appear in the critical list now (Table 14). This is attributable to the fact that they are among the most toxic, but not easily dispersed, industrial chemicals.

Table 14 — Critical Chemical List When Toxicity Score is Doubled

Rank	Chemical	CAS Number
1	Chlorine	7782-50-5
2	Hydrogen chloride	7647-01-0
3	Formalin	50-00-0
4	Hydrogen fluoride	7664-39-3
5	Mercury	7439-97-6
6	Phosgene	75-44-5
7	Sulfur dioxide	7446-09-5
8	OMPA	152-16-9
9	Phosphoryl Trichloride	10025-87-3
10	Nitric oxide #(I)	10102-43-9
11	Toluene-2,4-diisocyanate	584-84-9
12	Bromine	7726-95-6
13	Chlorine dioxide	10049-04-4
14	Oleum-E3*	8014-95-7
15	Boron trifluoride *	7637-07-2
16	Benomyl	17804-35-2
17	Parathion *	56-38-2
18	Sulfur tetrafluoride-T3*	7783-60-0
19	Arsine	7784-42-1
20	Nitrogen dioxide	10102-44-0
21	Dicofol #(T3)	115-32-2
22	Chlorine trifluoride E3	7790-91-2
23	Pentachlorophenol * #(T3)	87-86-5
24	Acetylene tetrabromide #(T3)	79-27-6
25	o-Anisidine * #(T3)	90-04-0
26	Azinphosmethyl * #(T3)	86-50-0
27	Tungsten hexafluoride-T3*	7783-82-6
28	Hexafluoroacetone E3	684-16-2
29	Silicon tetrafluoride-T3*	7783-61-1
30	Iron, pentacarbonyl- T3	13463-40-6
31	Germanium tetrafluoride T3	7783-58-6

In the variation in which the threat score is eliminated, there is no change to the critical list, since the threat score is not used to define the critical list.

4.1 Vapor Pressure and Vapor Density Sensitivity Analysis

Vapor pressure and vapor density data for 534 of the 570 chemicals in the inhalation/ocular hazard database were researched and inserted into the data table. To assess the effect of these two properties, the following changes were made to the calculation of the Toxic (Operational) Hazard Score.

First, because the highest vapor density reported is 14.3 (relative to air), all of the vapor density values are divided by 14.3 and then multiplied by 5, thus putting them on a 5-point scale. Next, a toxic/physical state value is derived by multiplying the vapor pressure times the vapor density score, and then dividing this number by the toxicity value in ppm. Although the units for this value are rather cumbersome, this calculation creates a range of values from very low to very high. To put them on a 5-point scale, scores are assigned based on the logarithmic distribution of the values, as shown in Table 15.

Table 15 — Toxicity/Physical State Scoring Criteria

Toxicity Range (in ppm)	Toxicity Score
Value \geq 10000	5
10000 > Value \geq 1000	4
1000 < Value \geq 100	3
100 < Value \geq 10	2
10 < Value \geq 1	1
1 > Value	0

The stability score, based on flammability and reactivity, remains unchanged in this variation of the prioritization. However, the Toxic (Operational) Hazard Score is now based only on the sum of the stability score and the toxicity/physical state score, totaling 10. Therefore, the threshold for the Toxic (Operational) Hazard Score is set at 5: any chemical scoring higher than 5 is considered critical. The threshold for the Relative Probability Score is still 1. Table 16 shows the critical list that results from this revised scoring approach, while Table 17 shows the downselected, high priority list that results from a similar reactivity and class-based analysis as performed for the principal prioritization results.

Table 16 — Critical Chemical List Based on Vapor Pressure and Vapor Density Considerations

Rank	Chemical	CAS Number
1	Chlorine	7782-50-5
2	Ammonia	7664-41-7
3	Hydrogen chloride	7647-01-0
4	Formalin solution	50-00-0
5	Hydrogen fluoride	7664-39-3
6	Sulfur dioxide	7446-09-5
7	Cobalt dichloride #(T3)	7646-79-9
8	Hydrogen bromide	10035-10-6
9	Phosgene	75-44-5
10	Nitric oxide #(I)	10102-43-9
11	Bromine	7726-95-6
12	Phosphorus trichloride	7719-12-2
13	Boron trifluoride *	7637-07-2
14	Phosphoryl Trichloride	10025-87-3
15	Methyl iodide #(E3)	74-88-4
16	Methyl bromide	74-83-9
17	Mercuric nitrate	10045-94-0
18	Nitrogen dioxide	10102-44-0
19	Tributyl phosphate #(T3)	126-73-8
20	Hydrogen sulfide	7783-06-4
21	Titanium tetrachloride-E3*	7550-45-0
22	Silicon tetrafluoride-T3*	7783-61-1
23	Hexafluoroacetone E3	684-16-2
24	Tungsten hexafluoride-T3*	7783-82-6
25	Sulfuryl chloride-T3*	7791-25-5
26	Hydrogen iodide T3	10034-85-2
27	Chlorine dioxide	10049-04-4
28	Fluorine	7782-41-4
29	Toluene-2,4-diisocyanate	584-84-9
30	Methyl chloroformate-T3*	79-22-1
31	Boron tribromide T3	10294-33-4
32	Sulfur trioxide-E3*	7446-11-9
33	Germanium tetrafluoride T3	7783-58-6
34	Arsine	7784-42-1
35	Chloropicrin	76-06-2
36	Propyl chloroformate-T3*	109-61-5
37	Iron, pentacarbonyl- T3	13463-40-6

Table 17 — High Priority Inhalation/Ocular Hazard List Based on Vapor Pressure and Vapor Density Considerations

#	Chemical	CAS Number
1	Ammonia	7664-41-7
2	Chlorine	7782-50-5
3	Formalin solution	50-00-0
4	Hydrogen bromide	10035-10-6
5	Hydrogen chloride	7647-01-0
6	Hydrogen fluoride	7664-39-3
7	Hydrogen sulfide	7783-06-4
8	Methyl bromide	74-83-9
9	Nitrogen dioxide	10102-44-0
10	Phosgene	75-44-5
11	Sulfur dioxide	7446-09-5
12	Sulfur trioxide	7446-11-9

There are several inconsequential changes relative to the high priority list derived from the principal prioritization results. Due to very low vapor pressure, no pesticide makes the list. Also, mercury does not make the priority list. Due to high flammability and high reactivity, hydrogen cyanide still does not make the list. Due to very low probability scores, cyanogen chloride still does not make the list. In place of sulfuric acid, sulfur trioxide makes the list. However, since a release of sulfur trioxide generates an inhalation hazard of sulfuric acid, this is not considered a significant change.

5 CONCLUSIONS

This report details the steps taken by NRL for JPM-P to develop a comprehensive, scientific prioritization of industrial chemicals. The main goal of this effort was to develop a high priority list of chemicals that comprehensively allows R&D and T&E to develop and test technologies for defensive purposes against industrial chemicals while significantly reducing the cost and burden of such activities.

The sensitivity analyses conducted further provide strong evidence that the scoring methodology used to produce the Toxic (Operational) Hazard Score does provide a valid means for balancing the toxicity value of a chemical and the actual ability of the chemical to manifest a toxic hazard in the operational environment.

Finally, it is important to note that this prioritization should not be used as the threat list for industrial chemicals. For instance, the prioritization does not imply that an adversary would never use phosphorus trichloride. However, because a release of phosphorus trichloride would generate a downwind hazard of hydrogen chloride, RDT&E efforts should instead focus on hydrogen chloride. Also, since the chemicals on the global list are not necessarily present in every region of the globe, a detailed analysis of a specific region's chemical industry is required to develop an applicable threat list.

NAVAL RESEARCH LABORATORY

NRL/FR/6364—11-10,211

**PRIORITIZATION AND SENSITIVITY ANALYSIS OF THE
INHALATION/OCULAR HAZARD OF INDUSTRIAL CHEMICALS**

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APPENDIX
(distributed on CD-ROM only)

Inhalation/Ocular Database and Prioritization Results

NRL ICA Database for Inhalation/Ocular Hazard Chemicals	A-1
Critical Inhalation/Ocular Hazard Chemicals	A-27
High Priority Inhalation/Ocular Hazard Chemicals	A-28
Sensitivity Analysis 1 Database (No Stability Score).....	A-29
Sensitivity Analysis 2 Database (Double Toxicity Score).....	A-38
Sensitivity Analysis 3 Database (No Threat Score).....	A-64
Sensitivity Analysis 4 Database (Based on Vapor Pressure/Density)	A-90
Critical Inhalation/Ocular Hazards Based On Vapor Pressure and Vapor Density Considerations	A-114
High Priority Inhalation/Ocular Hazards Based On Vapor Pressure and Vapor Density Considerations.....	A-115

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
1	Chlorine	7782-50-5	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
2	Ammonia	7664-41-7	1100.00	1.00	0.00	5.00	1.00	3.75	4.38	5.00
3	Hydrogen chloride	7647-01-0	100.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
4	Sulfuric acid	7664-93-9	7.47	4.00	2.00	2.50	0.00	5.00	3.75	2.50
5	Calcium Carbonate #(T3)	471-34-1	3.66	4.00	0.00	5.00	0.00	5.00	5.00	1.00
6	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	25.00	3.00	0.00	5.00	2.00	2.50	3.75	5.00
7	Hydrogen fluoride	7664-39-3	44.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
8	Calcium chloride	10043-52-4	88.19	3.00	0.00	5.00	0.00	5.00	5.00	1.00
9	Mercury	7439-97-6	1.08	4.00	0.00	5.00	0.00	5.00	5.00	2.50
10	Nitric acid	7697-37-2	92.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
11	Copper sulfate #(T3)	7758-98-7	3.92	4.00	0.00	5.00	0.00	5.00	5.00	1.00
12	Sodium Sulfate #(T3)	7757-82-6	21.52	3.00	0.00	5.00	0.00	5.00	5.00	1.00
13	Ammonium Chloride	12125-02-9	228.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00
14	Arsenic Trioxide	1327-53-3	1.12	4.00	0.00	5.00	0.00	5.00	5.00	1.00
15	Sulfur dioxide	7446-09-5	30.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
16	Phosgene	75-44-5	0.75	5.00	1.00	3.75	0.00	5.00	4.38	5.00
17	Dibasic sodium phosphate	10039-32-4	25.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
18	Silica #(T3)	7631-86-9	203.72	2.00	0.00	5.00	0.00	5.00	5.00	1.00
19	Sodium bicarbonate #(T3)	144-55-8	145.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
20	Calcium Hydroxide #(T3)	1305-62-0	165.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00
21	Acetic acid #(T3)	64-19-7	250.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
22	Chlorpyrifos #(T3)	2921-88-2	5.23	4.00	0.00	5.00	0.00	5.00	5.00	1.00
23	Magnesium Oxide #(T3)	1309-48-4	303.35	2.00	0.00	5.00	0.00	5.00	5.00	1.00
24	Sodium cyanide #(T3)	143-33-9	19.96	3.00	0.00	5.00	0.00	5.00	5.00	1.00
25	Isobutane-T3*	75-28-5	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
26	Hydrogen T3	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
27	Kerosene #(T3)	8008-20-6	57.53	3.00	0.00	5.00	2.00	2.50	3.75	2.50
28	Sodium Nitrate #(T3)	7631-99-4	28.77	3.00	2.00	2.50	0.00	5.00	3.75	1.00
29	Hydrogen peroxide #(E3)	7722-84-1	100.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
30	Gypsum #(T3 as K2CO3)	13397-24-5	88.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
31	Hydrogen bromide	10035-10-6	120.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
32	Lindane * #(T3)	58-89-9	4.20	4.00	0.00	5.00	0.00	5.00	5.00	1.00
33	Methomyl	16752-77-5	30.13	3.00	0.00	5.00	0.00	5.00	5.00	1.00
34	Nitric oxide #(I)	10102-43-9	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
35	OMPA	152-16-9	0.30	5.00	0.00	5.00	0.00	5.00	5.00	2.50
36	Phosphoric acid *#(T3)	7664-38-2	124.70	2.00	0.00	5.00	0.00	5.00	5.00	1.00
37	Diethylene glycol	111-46-6	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.00
38	Potassium dichromate #(T3)	7778-50-9	3.32	4.00	1.00	3.75	0.00	5.00	4.38	1.00
39	Propylene-T3*	115-07-1	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
40	Aniline	62-53-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
41	Potassium ferrocyanide #(T3)	13943-58-3	3.42	4.00	0.00	5.00	0.00	5.00	5.00	1.00
42	Propane	74-98-6	33000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
43	Sodium chloride #(T3)	7647-14-5	209.19	2.00	0.00	5.00	0.00	5.00	5.00	1.00
44	Sodium dodecyl sulfate #(T3)	151-21-3	42.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
45	Zinc	7440-66-6	74.79	3.00	0.00	5.00	0.00	5.00	5.00	1.00
46	Boron trifluoride *	7637-07-2	39.66	3.00	1.00	3.75	0.00	5.00	4.38	5.00
47	Sodium chlorate	7775-09-9	17.22	3.00	2.00	2.50	0.00	5.00	3.75	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
1	Chlorine	13.00	63.00	5.00	344.00	5.00	10.00	5.00	28.00
2	Ammonia	10.38	56.00	5.00	348.00	5.00	10.00	5.00	25.38
3	Hydrogen chloride	12.38	63.00	5.00	528.00	5.00	10.00	0.50	22.88
4	Sulfuric acid	10.25	66.00	5.00	544.00	5.00	10.00	2.50	22.75
5	Calcium Carbonate #(T3)	10.00	52.00	5.00	309.00	5.00	10.00	2.50	22.50
6	Formaldehyde (Formalin solution-37% methanol) E3	11.75	53.00	5.00	260.00	5.00	10.00	0.50	22.25
7	Hydrogen fluoride	12.38	25.00	2.00	138.00	5.00	7.00	2.50	21.88
8	Calcium chloride	9.00	43.00	4.00	208.00	5.00	9.00	2.50	20.50
9	Mercury	11.50	14.00	1.00	24.00	3.00	4.00	5.00	20.50
10	Nitric acid	10.50	49.00	4.00	226.00	5.00	9.00	0.50	20.00
11	Copper sulfate #(T3)	10.00	29.00	2.00	188.00	5.00	7.00	2.50	19.50
12	Sodium Sulfate #(T3)	9.00	36.00	3.00	200.00	5.00	8.00	2.50	19.50
13	Ammonium Chloride	7.38	25.00	2.00	141.00	5.00	7.00	5.00	19.38
14	Arsenic Trioxide	10.00	10.00	1.00	18.00	3.00	4.00	5.00	19.00
15	Sulfur dioxide	13.00	27.00	2.00	79.00	4.00	6.00	0.00	19.00
16	Phosgene	14.38	10.00	1.00	22.00	3.00	4.00	0.50	18.88
17	Dibasic sodium phosphate	9.00	22.00	2.00	125.00	5.00	7.00	2.50	18.50
18	Silica #(T3)	8.00	30.00	3.00	131.00	5.00	8.00	2.50	18.50
19	Sodium bicarbonate #(T3)	8.00	30.00	3.00	138.00	5.00	8.00	2.50	18.50
20	Calcium Hydroxide #(T3)	7.38	38.00	3.00	144.00	5.00	8.00	2.50	17.88
21	Acetic acid #(T3)	8.25	40.00	4.00	186.00	5.00	9.00	0.50	17.75
22	Chlorpyrifos #(T3)	10.00	17.00	1.00	71.00	4.00	5.00	2.50	17.50
23	Magnesium Oxide #(T3)	8.00	28.00	2.00	134.00	5.00	7.00	2.50	17.50
24	Sodium cyanide #(T3)	9.00	21.00	2.00	52.00	4.00	6.00	2.50	17.50
25	Isobutane-T3*	7.50	68.00	5.00	409.00	5.00	10.00	0.00	17.50
26	Hydrogen T3	7.50	70.00	5.00	340.00	5.00	10.00	0.00	17.50
27	Kerosene #(T3)	9.25	35.00	3.00	102.00	5.00	8.00	0.00	17.25
28	Sodium Nitrate #(T3)	7.75	23.00	2.00	124.00	5.00	7.00	2.50	17.25
29	Hydrogen peroxide #(E3)	8.63	38.00	3.00	172.00	5.00	8.00	0.50	17.13
30	Gypsum #(T3 as K2CO3)	9.00	36.00	3.00	127.00	5.00	8.00	0.00	17.00
31	Hydrogen bromide	12.00	16.00	1.00	73.00	4.00	5.00	0.00	17.00
32	Lindane * #(T3)	10.00	3.00	0.00	9.00	2.00	2.00	5.00	17.00
33	Methomyl	9.00	9.00	0.00	46.00	3.00	3.00	5.00	17.00
34	Nitric oxide #(I)	13.00	11.00	1.00	12.00	3.00	4.00	0.00	17.00
35	OMPA	12.50	11.00	1.00	22.00	3.00	4.00	0.50	17.00
36	Phosphoric acid *#(T3)	8.00	49.00	4.00	245.00	5.00	9.00	0.00	17.00
37	Diethylene glycol	9.38	30.00	3.00	94.00	4.00	7.00	0.50	16.88
38	Potassium dichromate #(T3)	9.38	17.00	1.00	69.00	4.00	5.00	2.50	16.88
39	Propylene-T3*	6.88	52.00	5.00	211.00	5.00	10.00	0.00	16.88
40	Aniline	9.25	16.00	1.00	64.00	4.00	5.00	2.50	16.75
41	Potassium ferrocyanide #(T3)	10.00	12.00	1.00	38.00	3.00	4.00	2.50	16.50
42	Propane	7.50	42.00	4.00	142.00	5.00	9.00	0.00	16.50
43	Sodium chloride #(T3)	8.00	38.00	3.00	175.00	5.00	8.00	0.50	16.50
44	Sodium dodecyl sulfate #(T3)	9.00	27.00	2.00	104.00	5.00	7.00	0.50	16.50
45	Zinc	9.00	31.00	3.00	90.00	4.00	7.00	0.50	16.50
46	Boron trifluoride *	12.38	11.00	1.00	28.00	3.00	4.00	0.00	16.38
47	Sodium chlorate	7.75	20.00	2.00	59.00	4.00	6.00	2.50	16.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
48	Ethyl alcohol #(T3)	64-17-5	3300.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
49	Ammonium nitrate, no organic coating T3	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00
50	Ammonium nitrate, with organic coating	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00
51	Selenium hexafluoride	7783-79-1	0.26	5.00	0.00	5.00	0.00	5.00	5.00	5.00
52	Chloroacetyl chloride E3	79-04-9	10.00	4.00	1.00	3.75	3.00	1.25	2.50	2.50
53	Dibutyl phthalate *#(T3)	84-74-2	43.90	3.00	0.00	5.00	1.00	3.75	4.38	2.50
54	Methyl bromide	74-83-9	740.00	2.00	0.00	5.00	1.00	3.75	4.38	5.00
55	Potassium Hydroxide #(T3)	1310-58-3	65.36	3.00	1.00	3.75	0.00	5.00	4.38	1.00
56	Silver nitrate #(T3)	7761-88-8	2.17	4.00	1.00	3.75	0.00	5.00	4.38	1.00
57	Hydrogen cyanide	74-90-8	15.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
58	Phosphoryl Trichloride	10025-87-3	0.85	5.00	2.00	2.50	0.00	5.00	3.75	2.50
59	Acetylene *T3	74-86-2	6000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
60	Sodium hydroxide #(E3)	1310-73-2	30.56	3.00	1.00	3.75	0.00	5.00	4.38	1.00
61	Bromine	7726-95-6	8.50	4.00	0.00	5.00	0.00	5.00	5.00	2.50
62	Carbendazim	10605-21-7	3.25	4.00	0.00	5.00	0.00	5.00	5.00	1.00
63	Chlorine dioxide	10049-04-4	2.40	4.00	4.00	0.00	0.00	5.00	2.50	5.00
64	Cobalt dichloride #(T3)	7646-79-9	51.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
65	Cyanogen Chloride	460-19-5	10.00	4.00	0.00	5.00	0.00	5.00	5.00	5.00
66	Iodine #(E3)	7553-56-2	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
67	Lead Oxide #(T3)	1309-60-0	10.22	3.00	0.00	5.00	0.00	5.00	5.00	1.00
68	Mercuric chloride #(T3 of Hg)	7487-94-7	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
69	Nitrogen dioxide	10102-44-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
70	Potassium cyanide #(T3)	151-50-8	22.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
71	Potassium orthophosphate #(T3 based on strontium orthophosphate)	7778-53-2	89.84	3.00	0.00	5.00	0.00	5.00	5.00	1.00
72	Oleum-E3*	8014-95-7	4.12	4.00	0.00	5.00	0.00	5.00	5.00	2.50
73	Dichlorvos	62-73-7	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
74	Iron oxide #(T3)	1309-37-1	76.55	3.00	0.00	5.00	1.00	3.75	4.38	1.00
75	Tetrafluoroboric acid #(T3)	16872-11-0	11.14	3.00	1.00	3.75	0.00	5.00	4.38	2.50
76	Ethanolamine #(T3)	141-43-5	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
77	Formic acid #(T3)	64-18-6	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
78	Phosphorus trichloride	7719-12-2	5.60	4.00	2.00	2.50	0.00	5.00	3.75	2.50
79	Benzene	71-43-2	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
80	Ethyl acetate #(T3)	141-78-6	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
81	Isobutyl alcohol #(T3)	78-83-1	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
82	Isopropyl alcohol #(T3)	67-63-0	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
83	Methyl alcohol	67-56-1	7200.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
84	Nitrobenzene #(T3)	98-95-3	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
85	Toluene	108-88-3	4500.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
86	Carbon monoxide/Syngas	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
87	Cypermethrin #(I as in pyrethrum)	52315-07-8	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
88	Fluorotrichloromethane #(T3)	75-69-4	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
89	Hydrogen sulfide	7783-06-4	50.00	3.00	0.00	5.00	4.00	0.00	2.50	5.00
90	Molybdophosphoric acid	51429-74-4	37.05	3.00	0.00	5.00	0.00	5.00	5.00	2.50
91	Acephate	30560-19-1	5.00	4.00	0.00	5.00	1.00	3.75	4.38	1.00
92	Barium nitrate *T3	10022-31-8	7.02	4.00	1.00	3.75	0.00	5.00	4.38	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
48	Ethyl alcohol #(T3)	5.63	51.00	5.00	321.00	5.00	10.00	0.50	16.13
49	Ammonium nitrate, no organic coating T3	6.13	52.00	5.00	182.00	5.00	10.00	0.00	16.13
50	Ammonium nitrate, with organic coating	6.13	52.00	5.00	182.00	5.00	10.00	0.00	16.13
51	Selenium hexafluoride	15.00	2.00	0.00	2.00	1.00	1.00	0.00	16.00
52	Chloroacetyl chloride E3	9.00	25.00	2.00	179.00	5.00	7.00	0.00	16.00
53	Dibutyl phthalate *#(T3)	9.88	27.00	2.00	88.00	4.00	6.00	0.00	15.88
54	Methyl bromide	11.38	10.00	1.00	17.00	3.00	4.00	0.50	15.88
55	Potassium Hydroxide #(T3)	8.38	24.00	2.00	107.00	5.00	7.00	0.50	15.88
56	Silver nitrate #(T3)	9.38	22.00	2.00	80.00	4.00	6.00	0.50	15.88
57	Hydrogen cyanide	6.75	13.00	1.00	25.00	3.00	4.00	5.00	15.75
58	Phosphoryl Trichloride	11.25	14.00	1.00	50.00	3.00	4.00	0.50	15.75
59	Acetylene *T3	5.63	93.00	5.00	253.00	5.00	10.00	0.00	15.63
60	Sodium hydroxide #(E3)	5.00	64.00	5.00	477.00	5.00	10.00	0.50	15.50
61	Bromine	11.50	12.00	1.00	50.00	3.00	4.00	0.00	15.50
62	Carbendazim	10.00	16.00	1.00	62.00	4.00	5.00	0.50	15.50
63	Chlorine dioxide	11.50	14.00	1.00	33.00	3.00	4.00	0.00	15.50
64	Cobalt dichloride #(T3)	9.00	22.00	2.00	90.00	4.00	6.00	0.50	15.50
65	Cyanogen Chloride	14.00	2.00	0.00	3.00	1.00	1.00	0.50	15.50
66	Iodine #(E3)	10.00	19.00	1.00	80.00	4.00	5.00	0.50	15.50
67	Lead Oxide #(T3)	9.00	10.00	1.00	20.00	3.00	4.00	2.50	15.50
68	Mercuric chloride #(T3 of Hg)	10.00	9.00	0.00	21.00	3.00	3.00	2.50	15.50
69	Nitrogen dioxide	13.00	7.00	0.00	9.00	2.00	2.00	0.50	15.50
70	Potassium cyanide #(T3)	9.00	14.00	1.00	23.00	3.00	4.00	2.50	15.50
71	Potassium orthophosphate #(T3 based on strontium orthophosphate)	9.00	11.00	1.00	33.00	3.00	4.00	2.50	15.50
72	Oleum-E3*	11.50	9.00	0.00	81.00	4.00	4.00	0.00	15.50
73	Dichlorvos	9.88	12.00	1.00	52.00	4.00	5.00	0.50	15.38
74	Iron oxide #(T3)	8.38	27.00	2.00	141.00	5.00	7.00	0.00	15.38
75	Tetrafluoroboric acid #(T3)	9.88	17.00	1.00	60.00	4.00	5.00	0.50	15.38
76	Ethanolamine #(T3)	9.25	20.00	2.00	72.00	4.00	6.00	0.00	15.25
77	Formic acid #(T3)	9.25	26.00	2.00	84.00	4.00	6.00	0.00	15.25
78	Phosphorus trichloride	10.25	11.00	1.00	57.00	4.00	5.00	0.00	15.25
79	Benzene	5.63	42.00	4.00	291.00	5.00	9.00	0.50	15.13
80	Ethyl acetate #(T3)	6.63	30.00	3.00	139.00	5.00	8.00	0.50	15.13
81	Isobutyl alcohol #(T3)	6.63	27.00	2.00	80.00	4.00	6.00	2.50	15.13
82	Isopropyl alcohol #(T3)	6.63	24.00	2.00	90.00	4.00	6.00	2.50	15.13
83	Methyl alcohol	5.63	47.00	4.00	268.00	5.00	9.00	0.50	15.13
84	Nitrobenzene #(T3)	7.63	12.00	1.00	55.00	4.00	5.00	2.50	15.13
85	Toluene	5.63	40.00	4.00	237.00	5.00	9.00	0.50	15.13
86	Carbon monoxide/Syngas	7.50	31.00	3.00	55.00	4.00	7.00	0.50	15.00
87	Cypermethrin #(I as in pyrethrum)	9.50	15.00	1.00	89.00	4.00	5.00	0.50	15.00
88	Fluorotrichloromethane #(T3)	11.00	12.00	1.00	18.00	3.00	4.00	0.00	15.00
89	Hydrogen sulfide	10.50	15.00	1.00	24.00	3.00	4.00	0.50	15.00
90	Molybdophosphoric acid	10.50	10.00	1.00	22.00	3.00	4.00	0.50	15.00
91	Acephate	9.38	9.00	0.00	49.00	3.00	3.00	2.50	14.88
92	Barium nitrate *T3	9.38	15.00	1.00	72.00	4.00	5.00	0.50	14.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
93	Imidacloprid #(E3)	105827-78-9	2.03	4.00	0.00	5.00	1.00	3.75	4.38	1.00
94	Lead nitrate	10099-74-8	11.07	3.00	1.00	3.75	0.00	5.00	4.38	1.00
95	Potassium nitrate #(T3)	7757-79-1	120.91	2.00	1.00	3.75	0.00	5.00	4.38	1.00
96	Sulfur tetrafluoride-T3*	7783-60-0	2.08	4.00	2.00	2.50	0.00	5.00	3.75	5.00
97	Tungsten hexafluoride-T3*	7783-82-6	32.84	3.00	2.00	2.50	0.00	5.00	3.75	5.00
98	Hexafluoroacetone E3	684-16-2	50.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
99	Silicon tetrafluoride-T3*	7783-61-1	100.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
100	Ethylene oxide	75-21-8	200.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
101	Toluene-2,4-diisocyanate	584-84-9	0.51	5.00	2.00	2.50	1.00	3.75	3.13	2.50
102	Xylenes #(T3)	95-47-6	900.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
103	Cadmium	7440-43-9	1.96	4.00	0.00	5.00	0.00	5.00	5.00	1.00
104	Copper oxychloride #(E3)	1332-40-7	100.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
105	Dimethoate #(T3)	60-51-5	3.19	4.00	0.00	5.00	0.00	5.00	5.00	1.00
106	Endosulfan	115-29-7	2.10	4.00	0.00	5.00	0.00	5.00	5.00	1.00
107	Fluorine	7782-41-4	13.00	3.00	4.00	0.00	0.00	5.00	2.50	5.00
108	Malathion * #(T3)	121-75-5	18.50	3.00	0.00	5.00	0.00	5.00	5.00	2.50
109	Red mercuric oxide	21908-53-2	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
110	Sodium fluoride #(T3)	7681-49-4	43.76	3.00	0.00	5.00	0.00	5.00	5.00	1.00
111	Strychnine Sulfate #(T3)	60-41-3	0.29	5.00	0.00	5.00	0.00	5.00	5.00	1.00
112	Butane T3	106-97-8	19000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
113	Phenyl ether biphenyl mixture (vapor) #(I)	8004-13-5	10.00	4.00	0.00	5.00	1.00	3.75	4.38	5.00
114	Nitrosyl chloride-T3*	2696-92-6	2.50	4.00	1.00	3.75	0.00	5.00	4.38	5.00
115	1,3-Butadiene	106-99-0	22000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
116	Benonyl	17804-35-2	0.84	5.00	1.00	3.75	1.00	3.75	3.75	1.00
117	Cyclohexanone #(T3)	108-94-1	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
118	Paracetamol #(E3-phenol)	103-90-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
119	Phenol #(E3)	108-95-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
120	Boron trichloride T3	10294-34-5	2.50	4.00	2.00	2.50	4.00	0.00	1.25	5.00
121	Parathion *	56-38-2	0.17	5.00	2.00	2.50	1.00	3.75	3.13	2.50
122	Chlorine trifluoride E3	7790-91-2	10.00	4.00	3.00	1.25	0.00	5.00	3.13	5.00
123	Carbon tetrachloride	56-23-5	520.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
124	Chloroform	67-66-3	3200.00	0.00	0.00	5.00	0.00	5.00	5.00	2.50
125	Deltamethrin #(I as in pyrethrum)	52918-63-5	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
126	Dichlorodifluoromethane #(T3)	75-71-8	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
127	Phosphamidon #(T3)	13171-21-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
128	Sulfuryl fluoride	2699-79-8	64.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
129	Thiram * #(T3)	137-26-8	10.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00
130	Acetylene tetrabromide #(T3)	79-27-6	8.00	4.00	1.00	3.75	0.00	5.00	4.38	2.50
131	Ammonium persulfate *T3	7727-54-0	10.71	3.00	1.00	3.75	0.00	5.00	4.38	1.00
132	Atrazine *T3	1912-24-9	1.50	4.00	0.00	5.00	1.00	3.75	4.38	1.00
133	Castor oil #(T3)	8001-79-4	13.12	3.00	0.00	5.00	1.00	3.75	4.38	2.50
134	Cobalt (II) nitrate	10141-05-6	12.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
135	Dimethylphthalate * #(T3)	131-11-3	62.96	3.00	0.00	5.00	1.00	3.75	4.38	2.50
136	o-Anisidine * #(T3)	90-04-0	9.93	4.00	0.00	5.00	1.00	3.75	4.38	2.50
137	Paraquat* (dichloride)	1910-42-5	19.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
138	Potassium permanganate #(T3)	7722-64-7	19.34	3.00	1.00	3.75	0.00	5.00	4.38	1.00
139	Tributyl phosphate #(T3)	126-73-8	30.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
93	Imidacloprid #(E3)	9.38	10.00	1.00	75.00	4.00	5.00	0.50	14.88
94	Lead nitrate	8.38	16.00	1.00	49.00	3.00	4.00	2.50	14.88
95	Potassium nitrate #(T3)	7.38	24.00	2.00	117.00	5.00	7.00	0.50	14.88
96	Sulfur tetrafluoride-T3*	12.75	2.00	0.00	6.00	2.00	2.00	0.00	14.75
97	Tungsten hexafluoride-T3*	11.75	8.00	0.00	17.00	3.00	3.00	0.00	14.75
98	Hexafluoroacetone E3	11.75	6.00	0.00	18.00	3.00	3.00	0.00	14.75
99	Silicon tetrafluoride-T3*	11.75	9.00	0.00	15.00	3.00	3.00	0.00	14.75
100	Ethylene oxide	7.63	32.00	3.00	84.00	4.00	7.00	0.00	14.63
101	Toluene-2,4-diisocyanate	10.63	12.00	1.00	20.00	3.00	4.00	0.00	14.63
102	Xylenes #(T3)	7.63	32.00	3.00	76.00	4.00	7.00	0.00	14.63
103	Cadmium	10.00	19.00	1.00	37.00	3.00	4.00	0.50	14.50
104	Copper oxychloride #(E3)	9.00	21.00	2.00	41.00	3.00	5.00	0.50	14.50
105	Dimethoate #(T3)	10.00	11.00	1.00	39.00	3.00	4.00	0.50	14.50
106	Endosulfan	10.00	11.00	1.00	32.00	3.00	4.00	0.50	14.50
107	Fluorine	10.50	10.00	1.00	17.00	3.00	4.00	0.00	14.50
108	Malathion * #(T3)	10.50	11.00	1.00	33.00	3.00	4.00	0.00	14.50
109	Red mercuric oxide	10.00	11.00	1.00	26.00	3.00	4.00	0.50	14.50
110	Sodium fluoride #(T3)	9.00	16.00	1.00	85.00	4.00	5.00	0.50	14.50
111	Strychnine Sulfate #(T3)	11.00	1.00	0.00	3.00	1.00	1.00	2.50	14.50
112	Butane T3	7.50	36.00	3.00	97.00	4.00	7.00	0.00	14.50
113	Phenyl ether biphenyl mixture (vapor) #(I)	13.38	3.00	0.00	3.00	1.00	1.00	0.00	14.38
114	Nitrosyl chloride-T3*	13.38	1.00	0.00	1.00	1.00	1.00	0.00	14.38
115	1,3-Butadiene	6.25	31.00	3.00	111.00	5.00	8.00	0.00	14.25
116	Benonyl	9.75	10.00	1.00	23.00	3.00	4.00	0.50	14.25
117	Cyclohexanone #(T3)	8.25	25.00	2.00	72.00	4.00	6.00	0.00	14.25
118	Paracetamol #(E3-phenol)	6.75	23.00	2.00	106.00	5.00	7.00	0.50	14.25
119	Phenol #(E3)	6.75	26.00	2.00	129.00	5.00	7.00	0.50	14.25
120	Boron trichloride T3	10.25	16.00	1.00	13.00	3.00	4.00	0.00	14.25
121	Parathion *	10.63	3.00	0.00	11.00	3.00	3.00	0.50	14.13
122	Chlorine trifluoride E3	12.13	4.00	0.00	8.00	2.00	2.00	0.00	14.13
123	Carbon tetrachloride	9.50	16.00	1.00	49.00	3.00	4.00	0.50	14.00
124	Chloroform	7.50	20.00	2.00	81.00	4.00	6.00	0.50	14.00
125	Deltamethrin #(I as in pyrethrum)	9.50	15.00	1.00	41.00	3.00	4.00	0.50	14.00
126	Dichlorodifluoromethane #(T3)	10.00	14.00	1.00	25.00	3.00	4.00	0.00	14.00
127	Phosphamidon #(T3)	12.50	3.00	0.00	4.00	1.00	1.00	0.50	14.00
128	Sulfuryl fluoride	13.00	4.00	0.00	5.00	1.00	1.00	0.00	14.00
129	Thiram * #(T3)	9.00	17.00	1.00	72.00	4.00	5.00	0.00	14.00
130	Acetylene tetrabromide #(T3)	10.88	6.00	0.00	11.00	3.00	3.00	0.00	13.88
131	Ammonium persulfate *T3	8.38	12.00	1.00	57.00	4.00	5.00	0.50	13.88
132	Atrazine *T3	9.38	10.00	1.00	23.00	3.00	4.00	0.50	13.88
133	Castor oil #(T3)	9.88	18.00	1.00	50.00	3.00	4.00	0.00	13.88
134	Cobalt (II) nitrate	8.38	18.00	1.00	70.00	4.00	5.00	0.50	13.88
135	Dimethylphthalate * #(T3)	9.88	16.00	1.00	36.00	3.00	4.00	0.00	13.88
136	o-Anisidine * #(T3)	10.88	5.00	0.00	24.00	3.00	3.00	0.00	13.88
137	Paraquat* (dichloride)	8.38	8.00	0.00	29.00	3.00	3.00	2.50	13.88
138	Potassium permanganate #(T3)	8.38	16.00	1.00	57.00	4.00	5.00	0.50	13.88
139	Tributyl phosphate #(T3)	9.88	10.00	1.00	37.00	3.00	4.00	0.00	13.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
140	MDEA-R* (N-Methyldiethanolamine	105-59-9	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
141	Magnesium (powder)-T3*	7439-95-4	251.49	2.00	2.00	2.50	3.00	1.25	1.88	1.00
142	Arsine	7784-42-1	0.50	5.00	2.00	2.50	4.00	0.00	1.25	5.00
143	Dimethylformamide	68-12-2	530.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
144	Naphthalene # (T3)	91-20-3	250.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
145	Phosphine	7803-51-2	3.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
146	Sodium sulfide # (T3)	1313-82-2	23.51	3.00	1.00	3.75	1.00	3.75	3.75	1.00
147	Sulfur trioxide	11/9/7446	160.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
148	Germanium tetrafluoride T3	7783-58-6	82.25	3.00	2.00	2.50	0.00	5.00	3.75	5.00
149	Hydrogen iodide T3	10034-85-2	120.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
150	Acetone	67-64-1	5700.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
151	Dimethyl sulfate	77-78-1	1.60	4.00	1.00	3.75	2.00	2.50	3.13	2.50
152	Ethylene dichloride #(E3)	107-06-2	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
153	Furfural #(E3)	98-01-1	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
154	n-Butyl acetate #(E3)	123-86-4	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
155	n-Butyl alcohol # (T3)	71-36-3	1400.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
156	Periodic acid	10450-60-9	0.54	5.00	3.00	1.25	0.00	5.00	3.13	1.00
157	Arsenic *T3	7440-38-2	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
158	Bromoform # (T3)	75-25-2	850.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
159	Dimethylamine	124-40-3	250.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
160	Ethylamine	75-04-7	270.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
161	Ethylene dibromide	106-93-4	46.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
162	Metalaxyl # (T3 of parent dixylyl methyl carbamate)	57837-19-1	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
163	Methylamine	74-89-5	350.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
164	Metribuzin # (T3 as diazo compound)	21087-64-9	10.98	3.00	0.00	5.00	0.00	5.00	5.00	1.00
165	Phosdrin * # (T3) (Mevinphos)	7786-34-7	0.44	5.00	0.00	5.00	0.00	5.00	5.00	2.50
166	Potassium fluoride # (T3)	7789-23-3	210.38	2.00	0.00	5.00	0.00	5.00	5.00	1.00
167	Sodium borate	12179-04-3	32.09	3.00	0.00	5.00	0.00	5.00	5.00	1.00
168	TEDP * # (T3)	3689-24-5	0.76	5.00	0.00	5.00	0.00	5.00	5.00	2.50
169	Aluminum (powder) *T3	7429-90-5	226.54	2.00	1.00	3.75	3.00	1.25	2.50	1.00
170	Diphenyl Ether # (T3)	101-84-8	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
171	Fenvalerate	51630-58-1	29.11	3.00	0.00	5.00	1.00	3.75	4.38	2.50
172	Methyl iodide #(E3)	74-88-4	125.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
173	Methylene chloride	75-09-2	6900.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
174	Oxalic acid * # (T3)	144-62-7	135.77	2.00	0.00	5.00	1.00	3.75	4.38	1.00
175	Phosphotungstic acid # (T3 of tungstic acid)	12067-99-1	13.60	3.00	1.00	3.75	0.00	5.00	4.38	2.50
176	Polyphosphoric acid	68333-79-9	14.47	3.00	1.00	3.75	0.00	5.00	4.38	2.50
177	TEPP * # (T3)	107-49-3	0.42	5.00	1.00	3.75	0.00	5.00	4.38	2.50
178	Carbonyl fluoride T3	353-50-4	20.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
179	Dicofol # (T3)	115-32-2	0.50	5.00	1.00	3.75	1.00	3.75	3.75	1.00
180	Ethylenediamine	107-15-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
181	N,N-Dimethylaniline # (T3)	121-69-7	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
182	o-Toluidine # (T3)	95-53-4	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
183	Phosphorus	7723-14-0	3.16	4.00	1.00	3.75	1.00	3.75	3.75	1.00
184	Chlorosulfonic acid E3	7790-94-5	6.29	4.00	0.00	5.00	2.00	2.50	3.75	2.50
185	Boron tribromide T3	10294-33-4	5.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
140	MDEA-R* (N-Methyldiethanolamine)	8.88	24.00	2.00	44.00	3.00	5.00	0.00	13.88
141	Magnesium (powder)-T3*	4.88	42.00	4.00	423.00	5.00	9.00	0.00	13.88
142	Arsine	11.25	8.00	0.00	10.00	2.00	2.00	0.50	13.75
143	Dimethylformamide	8.25	19.00	1.00	64.00	4.00	5.00	0.50	13.75
144	Naphthalene #T3)	6.75	25.00	2.00	103.00	5.00	7.00	0.00	13.75
145	Phosphine	10.25	9.00	0.00	13.00	3.00	3.00	0.50	13.75
146	Sodium sulfide #T3)	7.75	21.00	2.00	86.00	4.00	6.00	0.00	13.75
147	Sulfur trioxide	10.75	7.00	0.00	13.00	3.00	3.00	0.00	13.75
148	Germanium tetrafluoride T3	11.75	2.00	0.00	7.00	2.00	2.00	0.00	13.75
149	Hydrogen iodide T3	10.75	2.00	0.00	30.00	3.00	3.00	0.00	13.75
150	Acetone	5.63	30.00	3.00	146.00	5.00	8.00	0.00	13.63
151	Dimethyl sulfate	9.63	12.00	1.00	39.00	3.00	4.00	0.00	13.63
152	Ethylene dichloride #E3)	7.63	28.00	2.00	70.00	4.00	6.00	0.00	13.63
153	Furfural #E3)	8.63	19.00	1.00	66.00	4.00	5.00	0.00	13.63
154	n-Butyl acetate #E3)	5.63	30.00	3.00	124.00	5.00	8.00	0.00	13.63
155	n-Butyl alcohol #T3)	6.63	26.00	2.00	106.00	5.00	7.00	0.00	13.63
156	Periodic acid	9.13	10.00	1.00	21.00	3.00	4.00	0.50	13.63
157	Arsenic *T3	10.00	6.00	0.00	11.00	3.00	3.00	0.50	13.50
158	Bromoform #T3)	9.50	10.00	1.00	24.00	3.00	4.00	0.00	13.50
159	Dimethylamine	9.50	14.00	1.00	41.00	3.00	4.00	0.00	13.50
160	Ethylamine	9.50	14.00	1.00	33.00	3.00	4.00	0.00	13.50
161	Ethylene dibromide	10.50	7.00	0.00	27.00	3.00	3.00	0.00	13.50
162	Metalaxyl #T3 of parent dixylyl methyl carbamate)	10.00	8.00	0.00	25.00	3.00	3.00	0.50	13.50
163	Methylamine	9.50	14.00	1.00	46.00	3.00	4.00	0.00	13.50
164	Metribuzin #T3 as diazo compound)	9.00	11.00	1.00	23.00	3.00	4.00	0.50	13.50
165	Phosdrin * #T3) (Mevinphos)	12.50	4.00	0.00	5.00	1.00	1.00	0.00	13.50
166	Potassium fluoride #T3)	8.00	14.00	1.00	82.00	4.00	5.00	0.50	13.50
167	Sodium borate	9.00	6.00	0.00	10.00	2.00	2.00	2.50	13.50
168	TEDP * #T3)	12.50	1.00	0.00	1.00	1.00	1.00	0.00	13.50
169	Aluminum (powder) *T3	5.50	39.00	3.00	520.00	5.00	8.00	0.00	13.50
170	Diphenyl Ether #T3)	9.88	5.00	0.00	23.00	3.00	3.00	0.50	13.38
171	Fenvalerate	9.88	6.00	0.00	48.00	3.00	3.00	0.50	13.38
172	Methyl iodide #E3)	8.88	10.00	1.00	40.00	3.00	4.00	0.50	13.38
173	Methylene chloride	6.88	21.00	2.00	83.00	4.00	6.00	0.50	13.38
174	Oxalic acid * #T3)	7.38	16.00	1.00	106.00	5.00	6.00	0.00	13.38
175	Phosphotungstic acid #T3 of tungstic acid)	9.88	9.00	0.00	21.00	3.00	3.00	0.50	13.38
176	Polyphosphoric acid	9.88	9.00	0.00	26.00	3.00	3.00	0.50	13.38
177	TEPP * #T3)	11.88	1.00	0.00	1.00	1.00	1.00	0.50	13.38
178	Carbonyl fluoride T3	12.38	1.00	0.00	3.00	1.00	1.00	0.00	13.38
179	Dicofol #T3)	9.75	8.00	0.00	18.00	3.00	3.00	0.50	13.25
180	Ethylenediamine	9.25	12.00	1.00	32.00	3.00	4.00	0.00	13.25
181	N,N-Dimethylaniline #T3)	9.25	11.00	1.00	41.00	3.00	4.00	0.00	13.25
182	o-Toluidine #T3)	9.25	11.00	1.00	32.00	3.00	4.00	0.00	13.25
183	Phosphorus	8.75	11.00	1.00	49.00	3.00	4.00	0.50	13.25
184	Chlorosulfonic acid E3	10.25	6.00	0.00	38.00	3.00	3.00	0.00	13.25
185	Boron tribromide T3	10.25	3.00	0.00	12.00	3.00	3.00	0.00	13.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
186	Thionyl chloride-E3*	7719-09-715	10.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50
187	Titanium tetrachloride-E3*	7550-45-0	12.89	3.00	2.00	2.50	0.00	5.00	3.75	2.50
188	Dichlorosilane T3	4109-96-0	75.00	3.00	2.00	2.50	4.00	0.00	1.25	5.00
189	Ethylene T3	74-85-1	15000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
190	Cyclohexane #(#T3)	110-82-7	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
191	p-Phenylene diamine * #(#T3)	106-50-3	5.70	4.00	1.00	3.75	2.00	2.50	3.13	1.00
192	2 Aminopyridine #(#I)	504-29-0	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
193	2,4-D * #(#T3)	94-75-7	11.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
194	Carbaryl * #(#T3)	63-25-2	12.15	3.00	0.00	5.00	0.00	5.00	5.00	1.00
195	Collodion #(#T3)	9004-70-0	12.23	3.00	0.00	5.00	4.00	0.00	2.50	2.50
196	Demeton * #(#T3) (Systox)	8065-48-3	0.95	5.00	0.00	5.00	0.00	5.00	5.00	2.50
197	Dinitrobenzene* (o, m, p isomers) * #(#T3)	528-29-0; 99-65-0; 100-25-4	7.27	4.00	0.00	5.00	0.00	5.00	5.00	1.00
198	p-Anisidine * #(#T3)	104-94-9	9.93	4.00	0.00	5.00	0.00	5.00	5.00	1.00
199	Pentachlorophenol * #(#T3)	87-86-5	0.23	5.00	0.00	5.00	0.00	5.00	5.00	1.00
200	Warfarin * #(#T3)	81-81-2	1.60	4.00	0.00	5.00	0.00	5.00	5.00	1.00
201	Dinitrogen tetroxide T3	10544-72-6	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
202	Nitrogen trioxide-T3*	10544-73-7	500.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
203	Azinphosmethyl * #(#T3)	86-50-0	0.77	5.00	0.00	5.00	1.00	3.75	4.38	1.00
204	Bismuth *T3 of BiOCl	7440-69-9	47.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
205	Mercuric nitrate	10045-94-0	1.07	4.00	1.00	3.75	0.00	5.00	4.38	1.00
206	Methidathion #(#T3)	950-37-8	32.35	3.00	0.00	5.00	1.00	3.75	4.38	1.00
207	Methyl parathion #(#T3)	298-00-0	1.39	4.00	0.00	5.00	1.00	3.75	4.38	1.00
208	2-Diethylaminoethanol #(#I)	100-37-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
209	Bromoxynil #(#T3-as naptha solution only)	1689-84-5	80.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
210	Methylene bisphenyl isocyanate * #(#E3)	101-68-8	2.40	4.00	1.00	3.75	1.00	3.75	3.75	1.00
211	Tetramethylmethylenediamine #(#T#)	110-18-9	125.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
212	Aluminum chloride, anhydrous *T3	7446-70-0	91.68	3.00	2.00	2.50	0.00	5.00	3.75	1.00
213	Acetic anhydride #(#T3)	108-24-7	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
214	Benzyl chloride #(#E3)	100-44-7	25.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
215	Chlorobenzene	108-90-7	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
216	Ethyl benzene	100-41-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
217	Furfuryl alcohol #(#T3)	98-00-0	75.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
218	Hexone #(#T3)	108-10-1	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
219	Isoamyl alcohol (primary and secondary) #(#T3)	123-51-3	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
220	Iobutyl acetate #(#T3)	110-19-0	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
221	Methyl chloroformate-T3*	79-22-1	4.00	4.00	0.00	5.00	3.00	1.25	3.13	2.50
222	1,1,2,2-Tetrachloroethane #(#T3)	79-34-5	100.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
223	1,1,2-Trichloro 1,2,2-trifluoroethane #(#T3)	76-13-1	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
224	Boron #T3 of B2O3	7440-42-8	175.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
225	Buprofezin #(#T based on limited acute toxicity pesticide)	69327-76-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
226	Fenpropothrin #(#A EGL-3 of Cyano group of the carboxylate family)	39515-41-8	25.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
227	Hydrogen selenide	7783-07-5	2.20	4.00	1.00	3.75	3.00	1.25	2.50	5.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
186	Thionyl chloride-E3*	10.25		0.00	23.00	3.00	3.00	0.00	13.25
187	Titanium tetrachloride-E3*	9.25	15.00	1.00	25.00	3.00	4.00	0.00	13.25
188	Dichlorosilane T3	9.25	12.00	1.00	12.00	3.00	4.00	0.00	13.25
189	Ethylene T3	6.25	20.00	2.00	173.00	5.00	7.00	0.00	13.25
190	Cyclohexane #(T3)	6.63	26.00	2.00	75.00	4.00	6.00	0.50	13.13
191	p-Phenylene diamine * #(T3)	8.13	12.00	1.00	52.00	4.00	5.00	0.00	13.13
192	2 Aminopyridine #(I)	10.00	6.00	0.00	20.00	3.00	3.00	0.00	13.00
193	2,4-D * #(T3)	9.00	15.00	1.00	32.00	3.00	4.00	0.00	13.00
194	Carbaryl * #(T3)	9.00	10.00	1.00	25.00	3.00	4.00	0.00	13.00
195	Collodion #(T3)	8.00	22.00	2.00	40.00	3.00	5.00	0.00	13.00
196	Demeton * #(T3) (Systox)	12.50	0.00	0.00	0.00	0.00	0.00	0.50	13.00
197	Dinitrobenzene* (o, m, p isomers) * #(T3)	10.00	6.00	0.00	15.00	3.00	3.00	0.00	13.00
198	p-Anisidine * #(T3)	10.00	5.00	0.00	19.00	3.00	3.00	0.00	13.00
199	Pentachlorophenol * #(T3)	11.00	4.00	0.00	7.00	2.00	2.00	0.00	13.00
200	Warfarin * #(T3)	10.00	9.00	0.00	14.00	3.00	3.00	0.00	13.00
201	Dinitrogen tetroxide T3	13.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
202	Nitrogen trioxide-T3*	12.00	1.00	0.00	2.00	1.00	1.00	0.00	13.00
203	Azinphosmethyl * #(T3)	10.38	5.00	0.00	7.00	2.00	2.00	0.50	12.88
204	Bismuth *T3 of BiOCl	8.38	15.00	1.00	26.00	3.00	4.00	0.50	12.88
205	Mercuric nitrate	9.38	8.00	0.00	14.00	3.00	3.00	0.50	12.88
206	Methidathion #(T3)	8.38	4.00	0.00	9.00	2.00	2.00	2.50	12.88
207	Methyl parathion #(T3)	9.38	7.00	0.00	25.00	3.00	3.00	0.50	12.88
208	2-Diethylaminoethanol #(I)	9.25	0.00	0.00	23.00	3.00	3.00	0.50	12.75
209	Bromoxynil #(T3-as naptha solution only)	9.25	5.00	0.00	14.00	3.00	3.00	0.50	12.75
210	Methylene bisphenyl isocyanate * #(E3)	8.75	12.00	1.00	25.00	3.00	4.00	0.00	12.75
211	Tetramethylenelediamine # (T#)	8.25	10.00	1.00	18.00	3.00	4.00	0.50	12.75
212	Aluminum chloride, anhydrous *T3	7.75	10.00	1.00	99.00	4.00	5.00	0.00	12.75
213	Acetic anhydride #(T3)	7.63	19.00	1.00	55.00	4.00	5.00	0.00	12.63
214	Benzyl chloride #(E3)	8.63	12.00	1.00	41.00	3.00	4.00	0.00	12.63
215	Chlorobenzene	7.63	13.00	1.00	53.00	4.00	5.00	0.00	12.63
216	Ethyl benzene	6.63	21.00	2.00	51.00	4.00	6.00	0.00	12.63
217	Furfuryl alcohol #(T3)	8.63	12.00	1.00	38.00	3.00	4.00	0.00	12.63
218	Hexone #(T3)	7.63	17.00	1.00	52.00	4.00	5.00	0.00	12.63
219	Isoamyl alcohol (primary and secondary) #(T3)	7.63	18.00	1.00	60.00	4.00	5.00	0.00	12.63
220	Isobutyl acetate #(T3)	6.63	21.00	2.00	56.00	4.00	6.00	0.00	12.63
221	Methyl chloroformate-T3*	9.63	2.00	0.00	23.00	3.00	3.00	0.00	12.63
222	1,1,2,2-Tetrachloroethane #(T3)	10.50	6.00	0.00	10.00	2.00	2.00	0.00	12.50
223	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	8.50	12.00	1.00	15.00	3.00	4.00	0.00	12.50
224	Boron *T3 of B2O3	8.00	10.00	1.00	23.00	3.00	4.00	0.50	12.50
225	Buprofezin #(T3 based on limited acute toxicity pesticide)	9.00	5.00	0.00	27.00	3.00	3.00	0.50	12.50
226	Fenpropathrin #(A EGL-3 of Cyano group of the carboxylate family)	9.00	3.00	0.00	19.00	3.00	3.00	0.50	12.50
227	Hydrogen selenide	11.50	5.00	0.00	5.00	1.00	1.00	0.00	12.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
228	Iron phosphate #(T3 as iron)	10045-86-0	214.47	2.00	0.00	5.00	0.00	5.00	5.00	1.00
229	Methamidophos	10265-92-6	10.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
230	Sodium fluoroacetate #(T3)	62-74-8	0.61	5.00	0.00	5.00	0.00	5.00	5.00	1.00
231	Sulfur pentafluoride #(T3)	5714-22-7	1.00	5.00	0.00	5.00	0.00	5.00	5.00	2.50
232	Tetrachloroethylene	127-18-4	1200.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
233	Trithion	786-19-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
234	Trimethylamine-E3 ^a	75-50-3	500.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
235	Ethane T3	74-84-0	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
236	2,6-di-tert-butyl-p-cresol *T3	128-37-0	44.45	3.00	0.00	5.00	1.00	3.75	4.38	1.00
237	2-chloroacetophenone *IDLH	532-27-4	2.38	4.00	0.00	5.00	1.00	3.75	4.38	1.00
238	Acrylonitrile	107-13-1	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
239	Di-syston #(T3)	298-04-4	6.68	4.00	0.00	5.00	1.00	3.75	4.38	2.50
240	Hydroquinone * #(T3)	123-31-9	11.10	3.00	0.00	5.00	1.00	3.75	4.38	1.00
241	Oxydemeton-methyl #(I)	301-12-2	3.97	4.00	0.00	5.00	1.00	3.75	4.38	2.50
242	Styrene	100-42-5	1100.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
243	Trichloroethylene	79-01-6	3800.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
244	4-chlorobutynitrile (as CN)	628-20-6	25.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50
245	Barium *T3	7440-39-3	22.31	3.00	2.00	2.50	0.00	5.00	3.75	1.00
246	Cyclohexanol #(T3)	108-93-0	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
247	Dichloroethyl ether #(T3)	111-44-4	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
248	Dimethyl acetamide #(T3)	127-19-5	300.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
249	Ethylene chlorohydrin	107-07-3	12.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
250	Methyl (n-amyl) ketone #(T3)	110-43-0	800.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
251	Monomethyl aniline #(T3)	100-61-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
252	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	88-72-2; 99-08-1; 99-99-0	60.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50
253	Perchlromethyl mercaptan	594-42-3	0.90	5.00	2.00	2.50	0.00	5.00	3.75	2.50
254	Phenylhydrazine #(T3)	100-63-0	15.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
255	Sodium azide #(T3)	26628-22-8	4.69	4.00	2.00	2.50	0.00	5.00	3.75	1.00
256	Methylphenyldichlorosilane-T3 ^a	149-74-6	2.56	4.00	0.00	5.00	2.00	2.50	3.75	2.50
257	Sulfuryl chloride-T3 ^a	7791-25-5	15.00	3.00	2.00	2.50	0.00	5.00	3.75	2.50
258	Acetonitrile	75-05-8	670.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
259	Chloropicrin	76-06-2	1.40	4.00	3.00	1.25	0.00	5.00	3.13	2.50
260	n-Amyl acetate #(T3)	628-63-7	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
261	n-Propyl alcohol #(T3)	71-23-8	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
262	Tetrahydrofuran #(T3)	109-99-9	5000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
263	Chlorine pentafluoride T3	13637-63-3	60.00	3.00	3.00	1.25	0.00	5.00	3.13	5.00
264	1,1,2,2-Tetrachloro 2,2-difluoroethane #(I)	76-11-9	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
265	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	76-12-0	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
266	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22)	118-52-5	62.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
267	2-chlorobenzoyl Chloride	609-65-4	1.00	5.00	2.00	2.50	2.00	2.50	2.50	1.00
268	Chloroform-D	865-49-6	500.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
269	Cumene	98-82-8	730.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
228	Iron phosphate #(T3 as iron)	8.00	5.00	0.00	7.00	2.00	2.00	2.50	12.50
229	Methamidophos	9.00	9.00	0.00	45.00	3.00	3.00	0.50	12.50
230	Sodium fluoroacetate #(T3)	11.00	3.00	0.00	3.00	1.00	1.00	0.50	12.50
231	Sulfur pentafluoride #(T3)	12.50	0.00	0.00	0.00	0.00	0.00	0.00	12.50
232	Tetrachloroethylene	8.50	17.00	1.00	43.00	3.00	4.00	0.00	12.50
233	Triethion	12.50	0.00	0.00	0.00	0.00	0.00	0.00	12.50
234	Trimethylamine-E3 ^a	9.50	8.00	0.00	41.00	3.00	3.00	0.00	12.50
235	Ethane T3	7.50	28.00	2.00	33.00	3.00	5.00	0.00	12.50
236	2,6-di-tert-butyl-p-cresol *T3	8.38	13.00	1.00	48.00	3.00	4.00	0.00	12.38
237	2-chloroacetophenone *IDLH	9.38	6.00	0.00	11.00	3.00	3.00	0.00	12.38
238	Acrylonitrile	7.38	16.00	1.00	53.00	4.00	5.00	0.00	12.38
239	Di-syston #(T3)	10.88	3.00	0.00	3.00	1.00	1.00	0.50	12.38
240	Hydroquinone * #(T3)	8.38	15.00	1.00	41.00	3.00	4.00	0.00	12.38
241	Oxydemeton-methyl #(I)	10.88	3.00	0.00	3.00	1.00	1.00	0.50	12.38
242	Styrene	5.38	28.00	2.00	104.00	5.00	7.00	0.00	12.38
243	Trichloroethylene	6.88	17.00	1.00	55.00	4.00	5.00	0.50	12.38
244	4-chlorobutryonitrile (as CN)	9.25	4.00	0.00	11.00	3.00	3.00	0.00	12.25
245	Barium *T3	7.75	11.00	1.00	13.00	3.00	4.00	0.50	12.25
246	Cyclohexanol #(T3)	8.25	15.00	1.00	27.00	3.00	4.00	0.00	12.25
247	Dichloroethyl ether #(T3)	9.25	4.00	0.00	12.00	3.00	3.00	0.00	12.25
248	Dimethyl acetamide #(T3)	8.25	11.00	1.00	38.00	3.00	4.00	0.00	12.25
249	Ethylene chlorohydrin	9.25	6.00	0.00	17.00	3.00	3.00	0.00	12.25
250	Methyl (n-amyl) ketone #(T3)	8.25	11.00	1.00	20.00	3.00	4.00	0.00	12.25
251	Monomethyl aniline #(T3)	9.25	6.00	0.00	17.00	3.00	3.00	0.00	12.25
252	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	9.25	7.00	0.00	19.00	3.00	3.00	0.00	12.25
253	Perchloromethyl mercaptan	11.25	3.00	0.00	5.00	1.00	1.00	0.00	12.25
254	Phenylhydrazine #(T3)	9.25	8.00	0.00	23.00	3.00	3.00	0.00	12.25
255	Sodium azide #(T3)	8.75	8.00	0.00	35.00	3.00	3.00	0.50	12.25
256	Methylphenyldichlorosilane-T3 ^a	10.25	1.00	0.00	6.00	2.00	2.00	0.00	12.25
257	Sulfuryl chloride-T3 ^a	9.25	7.00	0.00	17.00	3.00	3.00	0.00	12.25
258	Acetonitrile	7.63	19.00	1.00	50.00	3.00	4.00	0.50	12.13
259	Chloropicrin	9.63	3.00	0.00	7.00	2.00	2.00	0.50	12.13
260	n-Amyl acetate #(T3)	7.63	14.00	1.00	37.00	3.00	4.00	0.50	12.13
261	n-Propyl alcohol #(T3)	7.63	18.00	1.00	50.00	3.00	4.00	0.50	12.13
262	Tetrahydrofuran #(T3)	5.63	21.00	2.00	65.00	4.00	6.00	0.50	12.13
263	Chlorine pentafluoride T3	11.13	1.00	0.00	1.00	1.00	1.00	0.00	12.13
264	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	11.00	2.00	0.00	3.00	1.00	1.00	0.00	12.00
265	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	11.00	1.00	0.00	1.00	1.00	1.00	0.00	12.00
266	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22)	9.00	3.00	0.00	16.00	3.00	3.00	0.00	12.00
267	2-chlorobenzoyl Chloride	8.50	5.00	0.00	26.00	3.00	3.00	0.50	12.00
268	Chloroform-D	9.50	6.00	0.00	10.00	2.00	2.00	0.50	12.00
269	Cumene	7.00	20.00	2.00	39.00	3.00	5.00	0.00	12.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
270	Dichlorotetrafluoroethane #(T3)	76-14-2	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
271	Difethialone (T3 based on warfarin)	104653-34-1	0.67	5.00	0.00	5.00	0.00	5.00	5.00	1.00
272	Dinitrocresol * #(T3)	534-52-1	0.62	5.00	0.00	5.00	0.00	5.00	5.00	1.00
273	Endrin * #(T3)	72-20-8	0.13	5.00	0.00	5.00	0.00	5.00	5.00	1.00
274	EPN * #(T3)	2104-64-5	0.38	5.00	0.00	5.00	0.00	5.00	5.00	1.00
275	p-Nitrochlorobenzene * #(T3)	100-00-5	15.52	3.00	3.00	1.25	1.00	3.75	2.50	1.00
276	Profenofos #(I)	41198-08-7	1600.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
277	Thallium sulfate #(T3 of TI)	7446-18-6	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
278	Trifluorobromomethane #(T3)	75-63-8	40000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
279	Nitrogen mustard hydrochloride-T3*	55-86-7	0.51	5.00	0.00	5.00	0.00	5.00	5.00	1.00
280	Iron, pentacarbonyl- T3	13463-40-6	0.18	5.00	1.00	3.75	3.00	1.25	2.50	2.50
281	Acetone cyanohydrin, stabilized *T-3	75-86-5	15.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
282	Acetyl Bromide *T3	506-96-7	20.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
283	1,1,2-Trichloroethane #(T3)	79-00-5	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
284	alpha-Chloroacetophenone * #(I)	532-27-4	2.37	4.00	0.00	5.00	1.00	3.75	4.38	1.00
285	Bifenthrin Tox est. on Pyr.	82657-04-3	20.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
286	Biphenyl * #(T3)	92-52-4	15.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00
287	guanidine hydrochloride	50-01-1	51.28	3.00	0.00	5.00	1.00	3.75	4.38	1.00
288	Mancozeb	8018-01-7	146.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
289	Methyl mercaptan	74-93-1	68.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
290	Phenamiphos #(T3)	22224-92-6	3.22	4.00	0.00	5.00	1.00	3.75	4.38	1.00
291	Thiophanate methyl #(T3 of carbamate fungicides)	23564-05-8	11.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
292	Triethanolamine-T3*	102-71-6	81.94	3.00	0.00	5.00	1.00	3.75	4.38	2.50
293	Antimony Pentafluoride T3	7783-70-2	8.46	4.00	1.00	3.75	0.00	5.00	4.38	2.50
294	1-methyl imidazole LD50	616-47-7	417.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
295	2-thiophenecarbonitrile (as CN)	1003-31-2	25.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
296	Bromobenzene #(T3)	108-86-1	350.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
297	Camphor (synthetic) * #(T3)	76-22-2	32.11	3.00	0.00	5.00	2.00	2.50	3.75	1.00
298	Phosphorus pentachloride * #(T3)	10026-13-8	8.22	4.00	2.00	2.50	0.00	5.00	3.75	1.00
299	Quinone #(T3)	106-51-4	22.60	3.00	0.00	5.00	2.00	2.50	3.75	1.00
300	Toluene sulfonic acid #(T3 based on barium salt of the acid)	70788-37-3	70.99	3.00	1.00	3.75	1.00	3.75	3.75	2.50
301	Sulfur trioxide-E3*	7446-11-9	9.16	4.00	2.00	2.50	0.00	5.00	3.75	1.00
302	Potassium chlorate	3811-04-9	69.83	3.00	2.00	2.50	0.00	5.00	3.75	1.00
303	Diborane	19287-45-7	3.70	4.00	3.00	1.25	4.00	0.00	0.63	5.00
304	Diethylamine #(T3)	109-89-7	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
305	Isoamyl acetate #(T3)	123-92-2	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
306	Methyl Cellosolve (r) #(I)	109-86-4	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
307	N-Ethylmorpholine #(I)	100-74-3	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
308	n-Heptane #(T3)	142-82-5	750.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
309	n-Hexane	110-54-3	8600.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
310	Nitroglycerin #(T3)	55-63-0	8.07	4.00	4.00	0.00	3.00	1.25	0.63	2.50
311	Pyridine #(T3)	110-86-1	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
312	Sulfur monochloride	10025-67-9	15.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
313	Triethylamine #(T3)	121-44-8	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
314	Cyclohexylamine T3	108-91-8	30.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
270	Dichlorotetrafluoroethane #(T3)	10.00	6.00	0.00	6.00	2.00	2.00	0.00	12.00
271	Difethialone (T3 based on warfarin)	11.00	1.00	0.00	1.00	1.00	1.00	0.00	12.00
272	Dinitrocresol * #(T3)	11.00	2.00	0.00	3.00	1.00	1.00	0.00	12.00
273	Endrin * #(T3)	11.00	1.00	0.00	1.00	1.00	1.00	0.00	12.00
274	EPN * #(T3)	11.00	2.00	0.00	4.00	1.00	1.00	0.00	12.00
275	p-Nitrochlorobenzene * #(T3)	6.50	6.00	0.00	25.00	3.00	3.00	2.50	12.00
276	Profenofos #(I)	8.50	4.00	0.00	21.00	3.00	3.00	0.50	12.00
277	Thallium sulfate #(T3 of TI)	10.00	4.00	0.00	8.00	2.00	2.00	0.00	12.00
278	Trifluorobromomethane #(T3)	10.00	7.00	0.00	9.00	2.00	2.00	0.00	12.00
279	Nitrogen mustard hydrochloride-T3*	11.00	3.00	0.00	3.00	1.00	1.00	0.00	12.00
280	Iron, pentacarbonyl- T3	10.00	1.00	0.00	8.00	2.00	2.00	0.00	12.00
281	Acetone cyanohydrin, stabilized *T-3	8.00	13.00	1.00	22.00	3.00	4.00	0.00	12.00
282	Acetyl Bromide *T3	8.00	10.00	1.00	23.00	3.00	4.00	0.00	12.00
283	1,1,2-Trichloroethane #(T3)	9.88	2.00	0.00	7.00	2.00	2.00	0.00	11.88
284	alpha-Chloroacetophenone * #(I)	9.38	3.00	0.00	10.00	2.00	2.00	0.50	11.88
285	Bifenthrin Tox est. on Pyr.	8.38	5.00	0.00	20.00	3.00	3.00	0.50	11.88
286	Biphenyl * #(T3)	8.38	7.00	0.00	18.00	3.00	3.00	0.50	11.88
287	guanidine hydrochloride	8.38	7.00	0.00	12.00	3.00	3.00	0.50	11.88
288	Mancozeb	7.38	12.00	1.00	41.00	3.00	4.00	0.50	11.88
289	Methyl mercaptan	9.88	6.00	0.00	9.00	2.00	2.00	0.00	11.88
290	Phenamiphos #(T3)	9.38	3.00	0.00	6.00	2.00	2.00	0.50	11.88
291	Thiophanate methyl #(T3 of carbamate fungicides)	8.38	8.00	0.00	30.00	3.00	3.00	0.50	11.88
292	Triethanolamine-T3*	9.88	6.00	0.00	6.00	2.00	2.00	0.00	11.88
293	Antimony Pentafluoride T3	10.88	3.00	0.00	4.00	1.00	1.00	0.00	11.88
294	1-methyl imidazole LD50	8.25	8.00	0.00	22.00	3.00	3.00	0.50	11.75
295	2-thiophenecarbonitrile (as CN)	9.25	4.00	0.00	9.00	2.00	2.00	0.50	11.75
296	Bromobenzene #(T3)	8.25	8.00	0.00	34.00	3.00	3.00	0.50	11.75
297	Camphor (synthetic) * #(T3)	7.75	13.00	1.00	37.00	3.00	4.00	0.00	11.75
298	Phosphorus pentachloride * #(T3)	8.75	7.00	0.00	17.00	3.00	3.00	0.00	11.75
299	Quinone #(T3)	7.75	12.00	1.00	25.00	3.00	4.00	0.00	11.75
300	Toluene sulfonic acid #(T3 based on barium salt of the acid)	9.25	5.00	0.00	6.00	2.00	2.00	0.50	11.75
301	Sulfur trioxide-E3*	8.75	6.00	0.00	12.00	3.00	3.00	0.00	11.75
302	Potassium chlorate	7.75	11.00	1.00	38.00	3.00	4.00	0.00	11.75
303	Diborane	9.63	7.00	0.00	8.00	2.00	2.00	0.00	11.63
304	Diethylamine #(T3)	7.63	16.00	1.00	39.00	3.00	4.00	0.00	11.63
305	Isoamyl acetate #(T3)	7.63	13.00	1.00	46.00	3.00	4.00	0.00	11.63
306	Methyl Cellosolve (r) #(I)	7.63	13.00	1.00	30.00	3.00	4.00	0.00	11.63
307	N-Ethylmorpholine #(I)	8.63	7.00	0.00	12.00	3.00	3.00	0.00	11.63
308	n-Heptane #(T3)	7.63	17.00	1.00	48.00	3.00	4.00	0.00	11.63
309	n-Hexane	5.63	23.00	2.00	78.00	4.00	6.00	0.00	11.63
310	Nitroglycerin #(T3)	7.13	13.00	1.00	22.00	3.00	4.00	0.50	11.63
311	Pyridine #(T3)	7.63	15.00	1.00	49.00	3.00	4.00	0.00	11.63
312	Sulfur monochloride	8.63	8.00	0.00	15.00	3.00	3.00	0.00	11.63
313	Triethylamine #(T3)	7.63	17.00	1.00	46.00	3.00	4.00	0.00	11.63
314	Cyclohexylamine T3	8.63	8.00	0.00	32.00	3.00	3.00	0.00	11.63

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
315	Propyl chloroformate-T3*	109-61-5	60.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
316	Piperidine-T3*	110-89-4	250.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
317	Aldicarb *#	116-06-3	12.87	3.00	0.00	5.00	0.00	5.00	5.00	1.00
318	Antimony oxide *T3	1309-64-4	6.43	4.00	0.00	5.00	0.00	5.00	5.00	1.00
319	Crag (r) herbicide #(T3)	136-78-7	39.55	3.00	0.00	5.00	0.00	5.00	5.00	1.00
320	Cyanide	57-12-5	25.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
321	Dioxane	123-91-1	760.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
322	Methyl chloride	74-87-3	3000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
323	Pirimicarb #(T3 as carbamate ester)	5947-49-9	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
324	Thallium #(T3)	7440-28-0	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
325	1-Butene T3	106-98-9	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
326	Epichlorohydrin #(I)	106-89-8	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
327	Ethyl ether #(T3)	60-29-7	1900.00	1.00	1.00	3.75	4.00	0.00	1.88	2.50
328	Halothane (T:V)	151-67-7	50.00	3.00	1.00	3.75	0.00	5.00	4.38	2.50
329	Triphenyl phosphate*	115-86-6	37.47	3.00	0.00	5.00	1.00	3.75	4.38	1.00
330	Acryl Chloride *T3	814-68-6	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
331	Chloromethyl methyl ether E3	107-30-2	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
332	2-Butoxyethanol #(T3)	111-76-2	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
333	2-Ethoxyethanol #(T3)	110-80-5	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
334	2-Ethoxyethyl acetate #(T3)	111-15-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
335	Allyl glycidyl ether #(I)	106-92-3	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
336	Chloroacetaldehyde	107-20-0	9.90	4.00	2.00	2.50	0.00	5.00	3.75	2.50
337	Diacetone alcohol #(T3)	123-42-2	1800.00	1.00	0.00	5.00	2.00	2.50	3.75	2.50
338	Dibutyl phosphate #(T3)	107-66-4	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
339	Diisobutyl ketone #(T3)	108-83-8	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
340	Methyl isobutyl carbinol #(I)	108-11-2	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
341	n-Butyl glycidyl ether #(T3)	2426-08-6	250.00	2.00	1.00	3.75	1.00	3.75	3.75	2.50
342	Nitrogen trifluoride #(T3)	7783-54-2	800.00	2.00	3.00	1.25	3.00	1.25	1.25	5.00
343	o-Dichlorobenzene #(T3)	95-50-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
344	Oxygen difluoride	7783-41-7	2.50	4.00	3.00	1.25	3.00	1.25	1.25	5.00
345	p-tert-Butyltoluene #(I)	98-51-1	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
346	Triethyl phosphate-T3*	122-52-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
347	Iodine pentafluoride R	7783-66-6	98.07	3.00	2.00	2.50	0.00	5.00	3.75	2.50
348	Ethyl bromide #(T3)	74-96-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
349	Phosphorus pentasulfide * #(T3)	1314-80-3	27.50	3.00	2.00	2.50	1.00	3.75	3.13	1.00
350	Thioglycol TEEL-3	60-24-2	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
351	Allyl alcohol	107-18-6	20.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
352	Allyl chloride	107-05-1	140.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
353	Carbon disulfide	75-15-0	480.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
354	Dichloromonofluoromethane #(T3)	75-43-4	5000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
355	Ethyl silicate #(E3)	78-10-4	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
356	Ferbam * #(I)	14484-64-1	15.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
357	Graphite #(T3)	7782-42-5	1017.90	1.00	0.00	5.00	0.00	5.00	5.00	1.00
358	Heptachlor * #(T3)	76-44-8	2.29	4.00	0.00	5.00	0.00	5.00	5.00	1.00
359	Hexachloroethane #(T3)	67-72-1	300.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
360	Hexachloronaphthalene * #(T3)	1335-87-1	0.15	5.00	0.00	5.00	0.00	5.00	5.00	1.00
361	Isopropylamine #(T3)	75-31-0	750.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
362	n-Pentane #(T3)	109-66-0	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
315	Propyl chloroformate-T3*	8.63	2.00	0.00	12.00	3.00	3.00	0.00	11.63
316	Piperidine-T3*	7.63	11.00	1.00	21.00	3.00	4.00	0.00	11.63
317	Aldicarb *#	9.00	4.00	0.00	6.00	2.00	2.00	0.50	11.50
318	Antimony oxide *T3	10.00	2.00	0.00	4.00	1.00	1.00	0.50	11.50
319	Crag (r) herbicide # (T3)	9.00	0.00	0.00	0.00	0.00	0.00	2.50	11.50
320	Cyanide	10.50	1.00	0.00	1.00	1.00	1.00	0.00	11.50
321	Dioxane	7.00	12.00	1.00	34.00	3.00	4.00	0.50	11.50
322	Methyl chloride	7.50	17.00	1.00	46.00	3.00	4.00	0.00	11.50
323	Pirimicarb # (T3 as carbamate ester)	10.00	1.00	0.00	1.00	1.00	1.00	0.50	11.50
324	Thallium # (T3)	10.00	5.00	0.00	5.00	1.00	1.00	0.50	11.50
325	1-Butene T3	7.50	15.00	1.00	50.00	3.00	4.00	0.00	11.50
326	Epichlorohydrin #(I)	7.38	15.00	1.00	34.00	3.00	4.00	0.00	11.38
327	Ethyl ether #(T3)	5.38	20.00	2.00	57.00	4.00	6.00	0.00	11.38
328	Halothane (T:V)	9.88	3.00	0.00	4.00	1.00	1.00	0.50	11.38
329	Triphenyl phosphate*	8.38	5.00	0.00	21.00	3.00	3.00	0.00	11.38
330	Acryl Chloride *T3	8.38	5.00	0.00	15.00	3.00	3.00	0.00	11.38
331	Chloromethyl methyl ether E3	8.38	8.00	0.00	11.00	3.00	3.00	0.00	11.38
332	2-Butoxyethanol #(T3)	8.25	1.00	0.00	43.00	3.00	3.00	0.00	11.25
333	2-Ethoxyethanol #(T3)	8.25	1.00	0.00	31.00	3.00	3.00	0.00	11.25
334	2-Ethoxyethyl acetate #(T3)	8.25	8.00	0.00	17.00	3.00	3.00	0.00	11.25
335	Allyl glycidyl ether #(I)	9.25	6.00	0.00	8.00	2.00	2.00	0.00	11.25
336	Chloroacetaldehyde	10.25	4.00	0.00	5.00	1.00	1.00	0.00	11.25
337	Diacetone alcohol #(T3)	7.25	11.00	1.00	30.00	3.00	4.00	0.00	11.25
338	Diethyl phosphate #(T3)	9.25	6.00	0.00	8.00	2.00	2.00	0.00	11.25
339	Diisobutyl ketone #(T3)	8.25	8.00	0.00	13.00	3.00	3.00	0.00	11.25
340	Methyl isobutyl carbinol #(I)	8.25	9.00	0.00	14.00	3.00	3.00	0.00	11.25
341	n-Butyl glycidyl ether #(T3)	8.25	7.00	0.00	13.00	3.00	3.00	0.00	11.25
342	Nitrogen trifluoride #(T3)	8.25	7.00	0.00	16.00	3.00	3.00	0.00	11.25
343	o-Dichlorobenzene #(T3)	8.25	9.00	0.00	37.00	3.00	3.00	0.00	11.25
344	Oxygen difluoride	10.25	2.00	0.00	2.00	1.00	1.00	0.00	11.25
345	p-tert-Butyltoluene #(I)	9.25	4.00	0.00	6.00	2.00	2.00	0.00	11.25
346	Triethyl phosphite-T3*	8.25	6.00	0.00	13.00	3.00	3.00	0.00	11.25
347	Iodine pentafluoride R	9.25	2.00	0.00	8.00	2.00	2.00	0.00	11.25
348	Ethyl bromide #(T3)	6.63	10.00	1.00	37.00	3.00	4.00	0.50	11.13
349	Phosphorus pentasulfide * #(T3)	7.13	12.00	1.00	28.00	3.00	4.00	0.00	11.13
350	Thioglycol TEEL-3	7.63	6.00	0.00	17.00	3.00	3.00	0.50	11.13
351	Allyl alcohol	8.00	6.00	0.00	13.00	3.00	3.00	0.00	11.00
352	Allyl chloride	7.00	11.00	1.00	19.00	3.00	4.00	0.00	11.00
353	Carbon disulfide	7.00	16.00	1.00	45.00	3.00	4.00	0.00	11.00
354	Dichloromonofluoromethane #(T3)	10.00	3.00	0.00	5.00	1.00	1.00	0.00	11.00
355	Ethyl silicate # (E3)	7.00	10.00	1.00	39.00	3.00	4.00	0.00	11.00
356	Ferbam * #(I)	9.00	6.00	0.00	8.00	2.00	2.00	0.00	11.00
357	Graphite # (T3)	7.00	16.00	1.00	43.00	3.00	4.00	0.00	11.00
358	Heptachlor * #(T3)	10.00	1.00	0.00	1.00	1.00	1.00	0.00	11.00
359	Hexachloroethane #(T3)	8.00	3.00	0.00	15.00	3.00	3.00	0.00	11.00
360	Hexachloronaphthalene * #(T3)	11.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00
361	Isopropylamine #(T3)	7.00	13.00	1.00	30.00	3.00	4.00	0.00	11.00
362	n-Pentane #(T3)	6.00	20.00	2.00	47.00	3.00	5.00	0.00	11.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
363	Chloromethyl ether E3	542-88-1	0.50	5.00	1.00	3.75	3.00	1.25	2.50	2.50
364	Propionitrile-T3*	107-12-0	37.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
365	Phenyltrichlorosilane-T3*	98-13-5	4.62	4.00	2.00	2.50	2.00	2.50	2.50	2.50
366	Chlorobromomethane #(T3)	74-97-5	2000.00	1.00	0.00	5.00	1.00	3.75	4.38	2.50
367	Methyl chloroform	71-55-6	4200.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
368	Perchloryl fluoride #(T3)	7616-94-6	100.00	3.00	3.00	1.25	2.00	2.50	1.88	5.00
369	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	126-33-0	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
370	Xylyidine #(T3)	1300-73-8	50.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
371	Arsenic trichloride T3	7784-34-1	12.50	3.00	1.00	3.75	0.00	5.00	4.38	2.50
372	Cyanogen T3	460-19-5	15.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
373	Carbonyl sulfide T3	463-58-1	125.00	2.00	1.00	3.75	4.00	0.00	1.88	5.00
374	Vinyl chloride-T3*	75-01-4	20000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
375	Methyl ether-T3*	115-10-6	60000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
376	Difluoroethane T3	75-37-6	75000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
377	Sodium hydrosulfite-T3*	7775-14-6	35.11	3.00	2.00	2.50	3.00	1.25	1.88	1.00
378	Acrolein	107-02-8	1.40	4.00	3.00	1.25	3.00	1.25	1.25	2.50
379	p-Dichlorobenzene #(T3)	106-46-7	150.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
380	Propylene oxide	75-56-9	870.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
381	Sodium borohydride #(T3)	16940-66-2	4.85	4.00	3.00	1.25	3.00	1.25	1.25	1.00
382	Potassium perchlorate-T3*	7778-74-7	88.24	3.00	2.00	2.50	0.00	5.00	3.75	1.00
383	1,2,3-Trichloropropane #(T3)	96-18-4	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
384	2-Butanone	78-93-3	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
385	Chlorodiphenyl (42% chlorine)* #(T3)	53469-21-9	0.47	5.00	2.00	2.50	1.00	3.75	3.13	2.50
386	Diazomethane #(T3)	334-88-3	2.00	4.00	4.00	0.00	3.00	1.25	0.63	5.00
387	Diisopropylamine #(T3)	108-18-9	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
388	Isophorone #(T3)	78-59-1	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
389	Isopropyl acetate #(T3)	108-21-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
390	n-Butylamine #(T3)	109-73-9	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
391	n-Propyl acetate #(I)	109-60-4	1700.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
392	Octane #(T3)	111-65-9	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
393	Phenyl glycidyl ether #(I)	122-60-1	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
394	Propylene dichloride #(T3)	78-87-5	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
395	sec-Butyl alcohol #(T3)	78-92-2	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
396	tert-Butyl alcohol #(T3)	75-65-0	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
397	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	78-53-5	0.30	5.00	1.00	3.75	2.00	2.50	3.13	2.50
398	Ethyl phosphonothioic dichloride R	993-43-1	7.50	4.00	1.00	3.75	2.00	2.50	3.13	2.50
399	Fluorosulfonic acid T3	7789-21-1	7.33	4.00	3.00	1.25	0.00	5.00	3.13	2.50
400	Acrylamide * #(T3)	79-06-1	20.64	3.00	2.00	2.50	2.00	2.50	2.50	1.00
401	Aldrin * #(T3)	309-00-2	1.68	4.00	0.00	5.00	0.00	5.00	5.00	1.00
402	DDT * #(T3)	50-29-3	34.49	3.00	0.00	5.00	0.00	5.00	5.00	1.00
403	Dieldrin * #(T3)	60-57-1	3.21	4.00	0.00	5.00	0.00	5.00	5.00	1.00
404	Ethyl chloride #(T3)	75-00-3	3800.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
405	Mercuric Salicylate #(T3 of Hg)	5970-32-1	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
406	Tetraethyl lead #(T3)	78-00-2	4.51	4.00	2.00	2.50	2.00	2.50	2.50	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
363	Chloromethyl ether E3	10.00	1.00	0.00	1.00	1.00	1.00	0.00	11.00
364	Propionitrile-T3*	8.00	3.00	0.00	14.00	3.00	3.00	0.00	11.00
365	Phenyltrichlorosilane-T3*	9.00	1.00	0.00	9.00	2.00	2.00	0.00	11.00
366	Chlorobromomethane #(T3)	7.88	7.00	0.00	11.00	3.00	3.00	0.00	10.88
367	Methyl chloroform	6.88	14.00	1.00	20.00	3.00	4.00	0.00	10.88
368	Perchloryl fluoride #(T3)	9.88	1.00	0.00	1.00	1.00	1.00	0.00	10.88
369	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	8.88	5.00	0.00	10.00	2.00	2.00	0.00	10.88
370	Xylyidine #(T3)	9.88	4.00	0.00	4.00	1.00	1.00	0.00	10.88
371	Arsenic trichloride T3	9.88	1.00	0.00	5.00	1.00	1.00	0.00	10.88
372	Cyanogen T3	9.88	2.00	0.00	2.00	1.00	1.00	0.00	10.88
373	Carbonyl sulfide T3	8.88	2.00	0.00	10.00	2.00	2.00	0.00	10.88
374	Vinyl chloride-T3*	6.88	6.00	0.00	63.00	4.00	4.00	0.00	10.88
375	Methyl ether-T3*	6.88	15.00	1.00	27.00	3.00	4.00	0.00	10.88
376	Difluoroethane T3	6.88	14.00	1.00	15.00	3.00	4.00	0.00	10.88
377	Sodium hydrosulfite-T3*	5.88	20.00	2.00	48.00	3.00	5.00	0.00	10.88
378	Acrolein	7.75	7.00	0.00	12.00	3.00	3.00	0.00	10.75
379	p-Dichlorobenzene #(T3)	6.75	10.00	1.00	38.00	3.00	4.00	0.00	10.75
380	Propylene oxide	5.75	16.00	1.00	54.00	4.00	5.00	0.00	10.75
381	Sodium borohydride #(T3)	6.25	13.00	1.00	34.00	3.00	4.00	0.50	10.75
382	Potassium perchlorate-T3*	7.75	7.00	0.00	27.00	3.00	3.00	0.00	10.75
383	1,2,3-Trichloropropane #(T3)	8.63	6.00	0.00	10.00	2.00	2.00	0.00	10.63
384	2-Butanone	5.63	18.00	1.00	63.00	4.00	5.00	0.00	10.63
385	Chlorodiphenyl (42% chlorine)* #(T3)	10.63	0.00	0.00	0.00	0.00	0.00	0.00	10.63
386	Diazomethane #(T3)	9.63	2.00	0.00	2.00	1.00	1.00	0.00	10.63
387	Diisopropylamine #(T3)	7.63	6.00	0.00	18.00	3.00	3.00	0.00	10.63
388	Isophorone #(T3)	7.63	7.00	0.00	13.00	3.00	3.00	0.00	10.63
389	Isopropyl acetate #(T3)	6.63	14.00	1.00	41.00	3.00	4.00	0.00	10.63
390	n-Butylamine #(T3)	7.63	8.00	0.00	19.00	3.00	3.00	0.00	10.63
391	n-Propyl acetate #(I)	6.63	12.00	1.00	31.00	3.00	4.00	0.00	10.63
392	Octane #(T3)	7.63	8.00	0.00	15.00	3.00	3.00	0.00	10.63
393	Phenyl glycidyl ether #(I)	8.63	7.00	0.00	10.00	2.00	2.00	0.00	10.63
394	Propylene dichloride #(T3)	7.63	9.00	0.00	16.00	3.00	3.00	0.00	10.63
395	sec-Butyl alcohol #(T3)	6.63	12.00	1.00	24.00	3.00	4.00	0.00	10.63
396	tert-Butyl alcohol #(T3)	6.63	13.00	1.00	37.00	3.00	4.00	0.00	10.63
397	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	10.63	0.00	0.00	0.00	0.00	0.00	0.00	10.63
398	Ethyl phosphonothioic dichloride R	9.63	1.00	0.00	1.00	1.00	1.00	0.00	10.63
399	Fluorosulfonic acid T3	9.63	1.00	0.00	2.00	1.00	1.00	0.00	10.63
400	Acrylamide * #(T3)	6.50	14.00	1.00	48.00	3.00	4.00	0.00	10.50
401	Aldrin * #(T3)	10.00	0.00	0.00	0.00	0.00	0.00	0.50	10.50
402	DDT * #(T3)	9.00	2.00	0.00	3.00	1.00	1.00	0.50	10.50
403	Dieldrin * #(T3)	10.00	0.00	0.00	0.00	0.00	0.00	0.50	10.50
404	Ethyl chloride #(T3)	7.50	8.00	0.00	21.00	3.00	3.00	0.00	10.50
405	Mercuric Salicylate #(T3 of Hg)	10.00	0.00	0.00	0.00	0.00	0.00	0.50	10.50
406	Tetraethyl lead #(T3)	9.00	1.00	0.00	2.00	1.00	1.00	0.50	10.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
407	Toxaphene #(T3 based on Keplinger 1963 study)	8001-35-2	29.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
408	Ammonium sulfamate * #(T3)	7773-06-0	107.10	2.00	0.00	5.00	1.00	3.75	4.38	1.00
409	Diketene	674-82-8	2.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
410	Ethyl acrylate	140-88-5	240.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
411	Methyl acrylate #(T3)	96-33-3	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
412	Methyl hydrazine	60-34-4	2.70	4.00	2.00	2.50	3.00	1.25	1.88	2.50
413	Methyl isocyanate	624-83-9	0.20	5.00	2.00	2.50	3.00	1.25	1.88	2.50
414	Methyl methacrylate	80-62-6	570.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
415	Methyltrichlorosilane-E3*	75-79-6	15.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
416	Dimethyltrichlorosilane T3	75-78-5	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
417	Acetyl Chloride *T3	75-36-5	125.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
418	Vinyl acetate monomer-E3*	108-05-4	500.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
419	1,2-dimethylimidazole LD50	1739-84-0	417.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
420	5-Methyl 3-heptanone #(I)	541-85-5	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
421	Chlordane * #(T3)	57-74-9	5.97	4.00	0.00	5.00	2.00	2.50	3.75	2.50
422	Mercury oxycyanide as Hg	1335-31-5	1.08	4.00	2.00	2.50	0.00	5.00	3.75	1.00
423	Stibine	7803-52-3	9.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
424	tert-Butyl chromate #(I)	1189-85-1	1.59	4.00	0.00	5.00	2.00	2.50	3.75	2.50
425	Trypan blue #(T3)	72-57-1	14.02	3.00	0.00	5.00	2.00	2.50	3.75	1.00
426	Butyltrichlorosilane SC	7521-80-4	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
427	Octyltrichlorosilane-A3* (60min)	5283-66-9	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
428	o-Chlorobenzylidene malononitrile * #(T3)	2698-41-1	0.26	5.00	0.00	5.00	3.00	1.25	3.13	1.00
429	p-Nitroaniline * #(T3)	100-01-6	53.10	3.00	2.00	2.50	1.00	3.75	3.13	1.00
430	2,4,5-T * #(T3)	93-76-5	23.92	3.00	0.00	5.00	0.00	5.00	5.00	1.00
431	ANTU * #(T3)	86-88-4	12.10	3.00	0.00	5.00	0.00	5.00	5.00	1.00
432	Benzoyl peroxide* #(T3)	94-36-0	50.47	3.00	4.00	0.00	4.00	0.00	0.00	1.00
433	Bromodiolone (Rat Inh. LC50)	54149-17-6	23.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00
434	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	300-76-5	12.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
435	Isopropyl ether #(T3)	108-20-3	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
436	Methoxychlor * #(T3)	72-43-5	35.37	3.00	0.00	5.00	0.00	5.00	5.00	1.00
437	Pindone * #(I)	83-26-1	10.62	3.00	0.00	5.00	0.00	5.00	5.00	1.00
438	Rotenone * #(T3)	83-79-4	30.99	3.00	0.00	5.00	0.00	5.00	5.00	1.00
439	Tetrayl * #(T3)	479-45-8	42.57	3.00	0.00	5.00	0.00	5.00	5.00	1.00
440	Allylamine *T3	107-11-9	18.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
441	Trimethyl phosphite-T3*	121-45-9	750.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
442	Ethyltrichlorosilane T3	115-21-9	6.00	4.00	2.00	2.50	2.00	2.50	2.50	2.50
443	Boron trifluoride compound with methyl ether (1:1) T3	353-42-4	7.50	4.00	2.00	2.50	2.00	2.50	2.50	2.50
444	1,1-Dimethylhydrazine	57-14-7	11.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
445	Aqua Regia *T3	8007-56-5	35.01	3.00	1.00	3.75	0.00	5.00	4.38	2.50
446	Hexachlorobenzene	118-74-1	17.17	3.00	1.00	3.75	0.00	5.00	4.38	1.00
447	Mercury arsenate #(T3 of Hg)	7784-37-4	1.08	4.00	1.00	3.75	0.00	5.00	4.38	1.00
448	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8003-34-7	326.87	2.00	0.00	5.00	1.00	3.75	4.38	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
407	Toxaphene #(T3 based on Keplinger 1963 study)	9.00	1.00	0.00	1.00	1.00	1.00	0.50	10.50
408	Ammonium sulfamate * #(T3)	7.38	8.00	0.00	14.00	3.00	3.00	0.00	10.38
409	Diketene	8.38	3.00	0.00	8.00	2.00	2.00	0.00	10.38
410	Ethyl acrylate	6.38	16.00	1.00	40.00	3.00	4.00	0.00	10.38
411	Methyl acrylate #(T3)	6.38	16.00	1.00	46.00	3.00	4.00	0.00	10.38
412	Methyl hydrazine	8.38	4.00	0.00	6.00	2.00	2.00	0.00	10.38
413	Methyl isocyanate	9.38	2.00	0.00	2.00	1.00	1.00	0.00	10.38
414	Methyl methacrylate	6.38	17.00	1.00	48.00	3.00	4.00	0.00	10.38
415	Methyltrichlorosilane-E3*	7.38	3.00	0.00	15.00	3.00	3.00	0.00	10.38
416	Dimethylchlorosilane T3	7.38	4.00	0.00	20.00	3.00	3.00	0.00	10.38
417	Acetyl Chloride *T3	6.38	10.00	1.00	37.00	3.00	4.00	0.00	10.38
418	Vinyl acetate monomer-E3*	6.38	4.00	0.00	53.00	4.00	4.00	0.00	10.38
419	1,2-dimethylimidazole LD50	6.75	5.00	0.00	11.00	3.00	3.00	0.50	10.25
420	5-Methyl 3-heptanone #(I)	9.25	2.00	0.00	3.00	1.00	1.00	0.00	10.25
421	Chlordane * #(T3)	10.25	0.00	0.00	0.00	0.00	0.00	0.00	10.25
422	Mercury oxycyanide as Hg	8.75	2.00	0.00	2.00	1.00	1.00	0.50	10.25
423	Stibine	10.25	0.00	0.00	0.00	0.00	0.00	0.00	10.25
424	tert-Butyl chromate #(I)	10.25	0.00	0.00	0.00	0.00	0.00	0.00	10.25
425	Trypan blue #(T3)	7.75	6.00	0.00	10.00	2.00	2.00	0.50	10.25
426	Butyltrichlorosilane SC	9.25	2.00	0.00	4.00	1.00	1.00	0.00	10.25
427	Octyltrichlorosilane-A3* (60min)	9.25	3.00	0.00	5.00	1.00	1.00	0.00	10.25
428	o-Chlorobenzylidene malononitrile * #(T3)	9.13	1.00	0.00	1.00	1.00	1.00	0.00	10.13
429	p-Nitroaniline * #(T3)	7.13	5.00	0.00	47.00	3.00	3.00	0.00	10.13
430	2,4,5-T * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
431	ANTU * #(T3)	9.00	3.00	0.00	3.00	1.00	1.00	0.00	10.00
432	Benzoyl peroxide* #(T3)	4.00	22.00	2.00	70.00	4.00	6.00	0.00	10.00
433	Bromodiolone (Rat Inh. LC50)	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
434	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	9.00	3.00	0.00	4.00	1.00	1.00	0.00	10.00
435	Isopropyl ether* #(T3)	6.00	15.00	1.00	24.00	3.00	4.00	0.00	10.00
436	Methoxychlor * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
437	Pindone * #(I)	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
438	Rotenone * #(T3)	9.00	2.00	0.00	2.00	1.00	1.00	0.00	10.00
439	Tetryl * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
440	Allylamine *T3	8.00	5.00	0.00	9.00	2.00	2.00	0.00	10.00
441	Trimethyl phosphite-T3*	7.00	4.00	0.00	18.00	3.00	3.00	0.00	10.00
442	Ethyltrichlorosilane T3	9.00	1.00	0.00	2.00	1.00	1.00	0.00	10.00
443	Boron trifluoride compound with methyl ether (1:1) T3	9.00	2.00	0.00	5.00	1.00	1.00	0.00	10.00
444	1,1-Dimethylhydrazine	7.38	7.00	0.00	9.00	2.00	2.00	0.50	9.88
445	Aqua Regia *T3	9.88	0.00	0.00	0.00	0.00	0.00	0.00	9.88
446	Hexachlorobenzene	8.38	1.00	0.00	2.00	1.00	1.00	0.50	9.88
447	Mercury arsenate #(T3 of Hg)	9.38	0.00	0.00	0.00	0.00	0.00	0.50	9.88
448	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8.88	4.00	0.00	4.00	1.00	1.00	0.00	9.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
449	Thiodiglycol-Alfa MSDS*B7]	111-48-8	4150.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
450	2-methylpropene-T3*	115-11-7	100000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
451	Trinitrophenol-T3*	88-89-1	8.00	4.00	4.00	0.00	1.00	3.75	1.88	1.00
452	Acetaldehyde	75-07-0	840.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
453	Dipropylene glycol methyl ether #(T3)	34590-94-8	400.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
454	Isoflurane #(IDLH of halogenated ethers-general)	26675-46-7	2000.00	1.00	1.00	3.75	1.00	3.75	3.75	2.50
455	Methyl Cellosolve (r) acetate #(I)	110-49-6	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
456	Calcium phosphide SC	1305-99-3	1.80	4.00	2.00	2.50	0.00	5.00	3.75	1.00
457	Trichlorosilane-E3*	10025-78-2	25.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
458	Aluminum bromide, anhydrous as AlCl3	7727-15-3	44.84	3.00	2.00	2.50	0.00	5.00	3.75	1.00
459	Nickel Carbonyl-T3*	13463-39-3	0.16	5.00	3.00	1.25	3.00	1.25	1.25	2.50
460	2-Pentanone #(T3)	107-87-9	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
461	Cyclohexene #(T3)	110-83-8	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
462	Ethyl formate #(I)	109-94-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
463	Glycidol #(I)	556-52-5	150.00	2.00	2.00	2.50	1.00	3.75	3.13	2.50
464	Hydrazine	302-01-2	35.00	3.00	3.00	1.25	4.00	0.00	0.63	2.50
465	Methyl acetate #(I)	79-20-9	3100.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
466	Methylcyclohexane #(T3)	108-87-2	1200.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
467	n-Butyl mercaptan #(T3)	109-79-5	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
468	Turpentine #(T3)	8006-64-2	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
469	Isobutyrnitrile-E3*	78-82-0	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
470	Methyl thiocyanate-T3*	1556-64-9	28.40	3.00	1.00	3.75	2.00	2.50	3.13	2.50
471	Dodecyltrichlorosilane Sc	4484-72-41	33.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
472	Bromine pentafluoride T3	7789-30-2	35.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
473	Bromine trifluoride T3	7787-71-5	89.30	3.00	3.00	1.25	0.00	5.00	3.13	2.50
474	Germane T3	7782-65-2	150.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
475	Silane-T3*	7803-62-5	4000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
476	Azinphos-ethyl *T3	2642-71-9	10.63	3.00	0.00	5.00	0.00	5.00	5.00	1.00
477	Difluorodibromomethane #(I)	75-61-6	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
478	Dinitrotoluene * #(T3)	25321-14-6	6.70	4.00	3.00	1.25	1.00	3.75	2.50	1.00
479	2-Butene T3	107-01-7	300.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
480	2-Butene-trans T3	624-64-6	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
481	2-Butene-cis T3	590-18-1	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
482	Chlorinated camphene * #(T3)	8001-35-2	11.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00
483	Crotonaldehyde	4170-30-3	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
484	Terphenyls * #(I)	92-06-8; 84-15-1; 92-94-4	53.08	3.00	0.00	5.00	1.00	3.75	4.38	1.00
485	Tetranitromethane	509-14-8	1.70	4.00	1.00	3.75	4.00	0.00	1.88	2.50
486	Tetramethylsilane-T3*	75-76-3	125.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
487	Trimethylchlorosilane-E3*	75-77-44	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
488	Cyclopentadiene #(I)	542-92-7	750.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
489	Ethyl butyl ketone #(T3)	106-35-4	1000.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
490	Methylcyclohexanol #(I)	25639-42-3	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
491	o-Methylcyclohexanone #(T3)	583-60-8	600.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
492	Aluminum phosphide *T3	20859-73-8	8.44	4.00	2.00	2.50	4.00	0.00	1.25	1.00
493	beta-Chloroprene #(T3)	126-99-8	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
449	Thiodiglycol-Alfa MSDS*B7]	6.88	9.00	0.00	12.00	3.00	3.00	0.00	9.88
450	2-methylpropene-T3*	6.88	3.00	0.00	40.00	3.00	3.00	0.00	9.88
451	Trinitrophenol-T3*	6.88	8.00	0.00	18.00	3.00	3.00	0.00	9.88
452	Acetaldehyde	5.75	15.00	1.00	49.00	3.00	4.00	0.00	9.75
453	Dipropylene glycol methyl ether #(T3)	6.75	7.00	0.00	35.00	3.00	3.00	0.00	9.75
454	Isoflurane #(IDLH of halogenated ethers-general)	7.25	2.00	0.00	8.00	2.00	2.00	0.50	9.75
455	Methyl Cellosolve (r) acetate #(I)	6.75	6.00	0.00	12.00	3.00	3.00	0.00	9.75
456	Calcium phosphide SC	8.75	1.00	0.00	1.00	1.00	1.00	0.00	9.75
457	Trichlorosilane-E3*	6.75	4.00	0.00	15.00	3.00	3.00	0.00	9.75
458	Aluminum bromide, anhydrous as AlCl3	7.75	2.00	0.00	6.00	2.00	2.00	0.00	9.75
459	Nickel Carbonyl-T3*	8.75	1.00	0.00	2.00	1.00	1.00	0.00	9.75
460	2-Pentanone #(T3)	6.63	8.00	0.00	13.00	3.00	3.00	0.00	9.63
461	Cyclohexene #(T3)	6.63	9.00	0.00	14.00	3.00	3.00	0.00	9.63
462	Ethyl formate #(I)	6.63	6.00	0.00	16.00	3.00	3.00	0.00	9.63
463	Glycidol #(I)	7.63	4.00	0.00	6.00	2.00	2.00	0.00	9.63
464	Hydrazine	6.13	9.00	0.00	12.00	3.00	3.00	0.50	9.63
465	Methyl acetate #(I)	5.63	15.00	1.00	33.00	3.00	4.00	0.00	9.63
466	Methylcyclohexane #(T3)	6.63	9.00	0.00	17.00	3.00	3.00	0.00	9.63
467	n-Butyl mercaptan #(T3)	7.63	4.00	0.00	6.00	2.00	2.00	0.00	9.63
468	Turpentine #(T3)	7.63	6.00	0.00	9.00	2.00	2.00	0.00	9.63
469	Isobutyronitrile-E3*	7.63	3.00	0.00	6.00	2.00	2.00	0.00	9.63
470	Methyl thiocyanate-T3*	8.63	1.00	0.00	2.00	1.00	1.00	0.00	9.63
471	Dodecyltrichlorosilane Sc	8.63	1.00	0.00	3.00	1.00	1.00	0.00	9.63
472	Bromine pentafluoride T3	8.63	1.00	0.00	3.00	1.00	1.00	0.00	9.63
473	Bromine trifluoride T3	8.63	2.00	0.00	2.00	1.00	1.00	0.00	9.63
474	Germane T3	7.63	2.00	0.00	6.00	2.00	2.00	0.00	9.63
475	Silane-T3*	5.63	16.00	1.00	30.00	3.00	4.00	0.00	9.63
476	Azinphos-ethyl *T3	9.00	0.00	0.00	0.00	0.00	0.00	0.50	9.50
477	Difluorodibromomethane #(I)	8.50	2.00	0.00	3.00	1.00	1.00	0.00	9.50
478	Dinitrotoluene * #(T3)	7.50	6.00	0.00	9.00	2.00	2.00	0.00	9.50
479	2-Butene T3	9.50	1.00	0.00	0.00	0.00	0.00	0.00	9.50
480	2-Butene-trans T3	7.50	1.00	0.00	6.00	2.00	2.00	0.00	9.50
481	2-Butene-cis T3	7.50	1.00	0.00	8.00	2.00	2.00	0.00	9.50
482	Chlorinated camphene * #(T3)	8.38	1.00	0.00	1.00	1.00	1.00	0.00	9.38
483	Crotonaldehyde	7.38	6.00	0.00	9.00	2.00	2.00	0.00	9.38
484	Terphenyls * #(I)	8.38	4.00	0.00	5.00	1.00	1.00	0.00	9.38
485	Tetranitromethane	8.38	1.00	0.00	1.00	1.00	1.00	0.00	9.38
486	Tetramethylsilane-T3*	6.38	6.00	0.00	15.00	3.00	3.00	0.00	9.38
487	Trimethylchlorosilane-E3*	6.38		0.00	30.00	3.00	3.00	0.00	9.38
488	Cyclopentadiene #(I)	8.25	2.00	0.00	2.00	1.00	1.00	0.00	9.25
489	Ethyl butyl ketone #(T3)	8.25	2.00	0.00	4.00	1.00	1.00	0.00	9.25
490	Methylcyclohexanol #(I)	8.25	1.00	0.00	1.00	1.00	1.00	0.00	9.25
491	o-Methylcyclohexanone #(T3)	8.25	4.00	0.00	5.00	1.00	1.00	0.00	9.25
492	Aluminum phosphide *T3	6.25	2.00	0.00	17.00	3.00	3.00	0.00	9.25
493	beta-Chloroprene #(T3)	7.00	4.00	0.00	6.00	2.00	2.00	0.00	9.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
494	Ethylene glycol dinitrate #(I)	628-96-6	12.06	3.00	0.00	5.00	4.00	0.00	2.50	2.50
495	Lithium #(T3)	7439-93-2	1409.20	1.00	2.00	2.50	2.00	2.50	2.50	1.00
496	Methylal #(T3)	109-87-5	2200.00	0.00	1.00	3.75	3.00	1.25	2.50	2.50
497	Ronnel #(I)	299-84-3	22.81	3.00	0.00	5.00	0.00	5.00	5.00	1.00
498	tert-Butyl acetate #(T3)	540-88-5	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50
499	Isopentane-T3*	78-78-4	20000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
500	Propyltrichlorosilane-A3* (60 min)	141-57-1	33.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
501	Hexyltrichlorosilane T3	928-65-4	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
502	Octadecyltrichlorosilane-A3* (60min)	112-04-9	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
503	Ethyl nitrite T3	109-95-5	60.00	3.00	4.00	0.00	4.00	0.00	0.00	5.00
504	Diglycidyl ether #(T3)	2238-07-5	10.00	4.00	4.00	0.00	2.00	2.50	1.25	2.50
505	Ethyleneimine	151-56-4	9.90	4.00	3.00	1.25	3.00	1.25	1.25	2.50
506	Pentaborane	19624-22-7	0.70	5.00	2.00	2.50	4.00	0.00	1.25	2.50
507	Tetramethyl succinonitrile #(I)	3333-52-6	5.00	4.00	0.00	5.00	2.00	2.50	3.75	1.00
508	Vinylidene chloride, inhibited-T3	75-35-4	600.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
509	Tetramethyllead-T3*	75-74-1	4.57	4.00	3.00	1.25	3.00	1.25	1.25	2.50
510	Nitromethane #(T3)	75-52-5	750.00	2.00	4.00	0.00	3.00	1.25	0.63	2.50
511	sec-Amyl acetate #(T3)	626-38-0	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
512	Trifluorochloroethylene-E3*	79-38-9	300.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
513	Decaborane * #(T3)	17702-41-9	3.00	4.00	2.00	2.50	2.00	2.50	2.50	1.00
514	Morpholine #(T3)	110-91-8	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	1.00
515	Trinitrotoluene	118-96-7	55.32	3.00	4.00	0.00	4.00	0.00	0.00	1.00
516	Dimethylpropane, 2,2- T3	463-82-1	50000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
517	Cyclopropane T3	75-19-4	60000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
518	Diethyleneglycol dinitrate R	693-21-0	0.31	5.00	4.00	0.00	4.00	0.00	0.00	2.50
519	Ammonium perchlorate T3	7790-98-9	104.05	2.00	4.00	0.00	0.00	5.00	2.50	1.00
520	2-Nitropropane #(T3)	79-46-9	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
521	Furan T3	110-00-9	19.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
522	Crotonaldehyde, (E)- T3	123-73-9	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
523	Allyltrichlorosilane, stabilized as allyl chloride	107-37-9	20.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
524	Methacrylonitrile-T3*	126-98-7	25.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
525	1,3- pentadiene-R*B97	504-60-9	280.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
526	sec Hexyl acetate #(I)	108-84-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
527	Propadiene-T3*	463-49-0	4000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
528	Vinylidene fluoride-T3*	75-38-7	12500.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
529	Pentaerythrite tetranitrate #(T3)	78-11-5	38.97	3.00	4.00	0.00	3.00	1.25	0.63	1.00
530	Mesityl oxide #(T3)	141-79-7	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
531	Methyl formate #(T3)	107-31-3	4500.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
532	Vinyl toluene #(I)	25013-15-4	400.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
533	Isopropyl chloride-T3*	75-29-6	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
534	Amyltrichlorosilane R	107-72-2	500.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
535	Comoline (R-2-ethylpiperidine) #(T3 as piperidine)	22160-08-3	110.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
536	Lithium nitride-T3*	26134-62-3	7.02	4.00	2.00	2.50	3.00	1.25	1.88	1.00
537	Nitroethane #(T3)	79-24-3	1000.00	2.00	3.00	1.25	3.00	1.25	1.25	2.50
538	Propylene imine	75-55-8	23.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
539	2-Hexanone #(T3)	591-78-6	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
494	Ethylene glycol dinitrate #(I)	8.00	3.00	0.00	3.00	1.00	1.00	0.00	9.00
495	Lithium #(T3)	4.50	11.00	1.00	23.00	3.00	4.00	0.50	9.00
496	Methylal #(T3)	5.00	10.00	1.00	13.00	3.00	4.00	0.00	9.00
497	Ronnel #(I)	9.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00
498	tert-Butyl acetate #(T3)	6.00	6.00	0.00	17.00	3.00	3.00	0.00	9.00
499	Isopentane-T3*	5.00	17.00	1.00	29.00	3.00	4.00	0.00	9.00
500	Propyltrichlorosilane-A3* (60 min)	8.00	2.00	0.00	5.00	1.00	1.00	0.00	9.00
501	Hexyltrichlorosilane T3	8.00	2.00	0.00	3.00	1.00	1.00	0.00	9.00
502	Octadecyltrichlorosilane-A3* (60min)	8.00	2.00	0.00	5.00	1.00	1.00	0.00	9.00
503	Ethyl nitrite T3	8.00	1.00	0.00	1.00	1.00	1.00	0.00	9.00
504	Diglycidyl ether #(T3)	7.75	1.00	0.00	1.00	1.00	1.00	0.00	8.75
505	Ethyleneimine	7.75	3.00	0.00	3.00	1.00	1.00	0.00	8.75
506	Pentaborane	8.75	0.00	0.00	0.00	0.00	0.00	0.00	8.75
507	Tetramethyl succinonitrile #(I)	8.75	0.00	0.00	0.00	0.00	0.00	0.00	8.75
508	Vinylidene chloride, inhibited-T3	5.75	2.00	0.00	12.00	3.00	3.00	0.00	8.75
509	Tetramethyllead-T3*	7.75	2.00	0.00	2.00	1.00	1.00	0.00	8.75
510	Nitromethane #(T3)	5.13	7.00	0.00	20.00	3.00	3.00	0.50	8.63
511	sec-Amyl acetate #(T3)	7.63	2.00	0.00	2.00	1.00	1.00	0.00	8.63
512	Trifluorochloroethylene-E3*	7.63	1.00	0.00	5.00	1.00	1.00	0.00	8.63
513	Decaborane * #(T3)	7.50	2.00	0.00	1.00	1.00	1.00	0.00	8.50
514	Morpholine #(T3)	4.50	12.00	1.00	32.00	3.00	4.00	0.00	8.50
515	Trinitrotoluene	4.00	11.00	1.00	17.00	3.00	4.00	0.50	8.50
516	Dimethylpropane, 2,2- T3	7.50	1.00	0.00	4.00	1.00	1.00	0.00	8.50
517	Cyclopropane T3	7.50	1.00	0.00	3.00	1.00	1.00	0.00	8.50
518	Diethyleneglycol dinitrate R	7.50	2.00	0.00	4.00	1.00	1.00	0.00	8.50
519	Ammonium perchlorate T3	5.50	2.00	0.00	16.00	3.00	3.00	0.00	8.50
520	2-Nitropropane #(T3)	7.38	2.00	0.00	4.00	1.00	1.00	0.00	8.38
521	Furan T3	7.38	3.00	0.00	5.00	1.00	1.00	0.00	8.38
522	Crotonaldehyde, (E)- T3	7.38	1.00	0.00	2.00	1.00	1.00	0.00	8.38
523	Allyltrichlorosilane, stabilized as allyl chloride	7.38	1.00	0.00	3.00	1.00	1.00	0.00	8.38
524	Methacrylonitrile-T3*	7.38	1.00	0.00	1.00	1.00	1.00	0.00	8.38
525	1,3- pentadiene-R*B97	6.38	7.00	0.00	10.00	2.00	2.00	0.00	8.38
526	sec Hexyl acetate #(I)	8.25	0.00	0.00	0.00	0.00	0.00	0.00	8.25
527	Propadiene-T3*	6.25	3.00	0.00	6.00	2.00	2.00	0.00	8.25
528	Vinylidene fluoride-T3*	6.25	2.00	0.00	8.00	2.00	2.00	0.00	8.25
529	Pentaerythrite tetranitrate #(T3)	4.63	9.00	0.00	12.00	3.00	3.00	0.50	8.13
530	Mesityl oxide #(T3)	6.00	5.00	0.00	6.00	2.00	2.00	0.00	8.00
531	Methyl formate #(T3)	5.00	8.00	0.00	16.00	3.00	3.00	0.00	8.00
532	Vinyl toluene #(I)	7.00	1.00	0.00	3.00	1.00	1.00	0.00	8.00
533	Isopropyl chloride-T3*	5.00	1.00	0.00	13.00	3.00	3.00	0.00	8.00
534	Amyltrichlorosilane R	7.00	1.00	0.00	2.00	1.00	1.00	0.00	8.00
535	Comiline (R-2-ethylpiperidine) #(T3 as piperidine)	7.38	0.00	0.00	0.00	0.00	0.00	0.50	7.88
536	Lithium nitride-T3*	6.88	1.00	0.00	5.00	1.00	1.00	0.00	7.88
537	Nitroethane #(T3)	5.75	3.00	0.00	8.00	2.00	2.00	0.00	7.75
538	Propylene imine	6.75	3.00	0.00	4.00	1.00	1.00	0.00	7.75
539	2-Hexanone #(T3)	6.63	2.00	0.00	3.00	1.00	1.00	0.00	7.63

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
540	sec-Butyl acetate #(T3)	105-46-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
541	Tetrafluoroethylene-E3*	116-14-3	10000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
542	1,2-Dichloroethylene #(T3)	540-59-0	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
543	1-Chloro-1-nitropropane #(I)	600-25-9	100.00	3.00	3.00	1.25	2.00	2.50	1.88	2.50
544	1-Nitropropane #(I)	108-03-2	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
545	Ethyl mercaptan	75-08-1	360.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
546	Isopropyl glycidyl ether #(I)	4016-14-2	400.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
547	Methyldichlorosilane-R*	75-54-7	1200.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
548	Vinyltrichlorosilane-R*	75-94-5	2000.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
549	Methoxyfluorane #(IDLH of halogenated ethers-general)	76-38-0	2000.00	1.00	0.00	5.00	2.00	2.50	3.75	1.00
550	Vinyl fluoride-T3*	75-02-5	150000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
551	Magnesium phosphide- Rentokil MSDS*	12057-74-8	2.40	4.00	2.00	2.50	4.00	0.00	1.25	1.00
552	Vinyl methyl ether-R*	107-25-5	64000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
553	Acetyl Iodide (as acetyl bromide) T3	507-02-8	20.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
554	Vinyl ethyl ether-T3*	109-92-2	1500.00	1.00	2.00	2.50	4.00	0.00	1.25	2.50
555	Isoprene-T3*	78-79-5	25000.00	0.00	2.00	2.50	4.00	0.00	1.25	2.50
556	1,1-Dichloroethane #(T3)	75-34-3	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
557	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	18810-58-7	1.38	4.00	3.00	1.25	4.00	0.00	0.63	1.00
558	Ethyl acetylene (as ethylene)	107-00-6	15000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
559	2-Chloropropylene T3	557-98-2	35000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
560	Trinitrochlorobenzene-T3*	88-88-0	24.69	3.00	3.00	1.25	3.00	1.25	1.25	1.00
561	Methyl acetylene #(T3)	74-99-7	1700.00	1.00	3.00	1.25	4.00	0.00	0.63	2.50
562	Ammonium Picrate T3	131-74-8	24.83	3.00	3.00	1.25	4.00	0.00	0.63	1.00
563	HMX T3	2691-41-0	41.28	3.00	3.00	1.25	4.00	0.00	0.63	1.00
564	1-Chloropropylene R	590-21-6	8000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
565	1-pentene-T3*	109-67-1	30000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
566	2-Methyl-1-butene-T3*	563-46-2	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
567	Diethyldichlorosilane R	1719-53-5	4668.58	0.00	2.00	2.50	3.00	1.25	1.88	2.50
568	Dinitrophenol, Dry or wet T3	25550-58-7 (51-28-5)	3.32	4.00	4.00	0.00	4.00	0.00	0.00	1.00
569	n-Propyl nitrate #(T3)	627-13-4	1160.00	1.00	3.00	1.25	3.00	1.25	1.25	2.50
570	Vinyl acetylene-R*	689-97-4	105000.00	0.00	3.00	1.25	4.00	0.00	0.63	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
540	sec-Butyl acetate #T3)	6.63	2.00	0.00	2.00	1.00	1.00	0.00	7.63
541	Tetrafluoroethylene-E3*	5.63	3.00	0.00	6.00	2.00	2.00	0.00	7.63
542	1,2-Dichloroethylene #T3)	6.38	2.00	0.00	2.00	1.00	1.00	0.00	7.38
543	1-Chloro-1-nitropropane #(I)	7.38	2.00	0.00	0.00	0.00	0.00	0.00	7.38
544	1-Nitropropane #(I)	6.38	3.00	0.00	4.00	1.00	1.00	0.00	7.38
545	Ethyl mercaptan	6.38	4.00	0.00	5.00	1.00	1.00	0.00	7.38
546	Isopropyl glycidyl ether #(I)	6.38	1.00	0.00	1.00	1.00	1.00	0.00	7.38
547	Methyldichlorosilane-R*	5.38	2.00	0.00	9.00	2.00	2.00	0.00	7.38
548	Vinyltrichlorosilane-R*	5.38	3.00	0.00	8.00	2.00	2.00	0.00	7.38
549	Methoxyflurane #(IDLH of halogenated ethers-general)	5.75	1.00	0.00	3.00	1.00	1.00	0.50	7.25
550	Vinyl fluoride-T3*	6.25	1.00	0.00	2.00	1.00	1.00	0.00	7.25
551	Magnesium phosphide- Rentokil MSDS*	6.25	2.00	0.00	5.00	1.00	1.00	0.00	7.25
552	Vinyl methyl ether-R*	6.25	1.00	0.00	3.00	1.00	1.00	0.00	7.25
553	Acetyl Iodide (as acetyl bromide) T3	6.75	0.00	0.00	0.00	0.00	0.00	0.00	6.75
554	Vinyl ethyl ether-T3*	4.75	3.00	0.00	8.00	2.00	2.00	0.00	6.75
555	Isoprene-T3*	3.75	6.00	0.00	17.00	3.00	3.00	0.00	6.75
556	1,1-Dichloroethane #T3)	5.63	3.00	0.00	3.00	1.00	1.00	0.00	6.63
557	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	5.63	1.00	0.00	3.00	1.00	1.00	0.00	6.63
558	Ethyl acetylene (as ethylene)	5.63	2.00	0.00	3.00	1.00	1.00	0.00	6.63
559	2-Chloropropylene T3	4.38	1.00	0.00	6.00	2.00	2.00	0.00	6.38
560	Trinitrochlorobenzene-T3*	5.25	1.00	0.00	1.00	1.00	1.00	0.00	6.25
561	Methyl acetylene #(T3)	4.13	4.00	0.00	7.00	2.00	2.00	0.00	6.13
562	Ammonium Picrate T3	4.63	1.00	0.00	1.00	1.00	1.00	0.00	5.63
563	HMX T3	4.63	1.00	0.00	2.00	1.00	1.00	0.00	5.63
564	1-Chloropropylene R	4.38	2.00	0.00	2.00	1.00	1.00	0.00	5.38
565	1-pentene-T3*	4.38	3.00	0.00	5.00	1.00	1.00	0.00	5.38
566	2-Methyl-1-butene-T3*	4.38	1.00	0.00	4.00	1.00	1.00	0.00	5.38
567	Diethyldichlorosilane R	4.38	1.00	0.00	2.00	1.00	1.00	0.00	5.38
568	Dinitrophenol, Dry or wet T3	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
569	n-Propyl nitrate #(T3)	4.75	0.00	0.00	0.00	0.00	0.00	0.00	4.75
570	Vinyl acetylene-R*	3.13	1.00	0.00	1.00	1.00	1.00	0.00	4.13

Rank	Chemical	CAS Number	Toxic (Operational) Hazard Score	Probability Section		Total Score	
				Relative Probability Score	Threat Scores		
1	Chlorine	7782-50-5	13.00	10.00	5.00	28.00	
2	Hydrogen chloride	7647-01-0	12.38	10.00	0.50	22.88	
3	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	11.75	10.00	0.50	22.25	
4	Ammonia	7664-41-7	10.38	10.00	5.00	25.38	
5	Sulfuric acid	7664-93-9	10.25	10.00	2.50	22.75	
6	Nitric acid	7697-37-2	10.50	9.00	0.50	20.00	
7	Hydrogen fluoride	7664-39-3	12.38	7.00	2.50	21.88	
8	Sulfur dioxide	7446-09-5	13.00	6.00	0.00	19.00	
9	Hydrogen bromide	10035-10-6	12.00	5.00	0.00	17.00	
10	Phosphorus trichloride	7719-12-2	10.25	5.00	0.00	15.25	
11	Phosgene	75-44-5	14.38	4.00	0.50	18.88	
12	Nitric oxide #(I)	10102-43-9	13.00	4.00	0.00	17.00	
13	OMPA	152-16-9	12.50	4.00	0.50	17.00	
14	Boron trifluoride *	7637-07-2	12.38	4.00	0.00	16.38	
15	Mercury	7439-97-6	11.50	4.00	5.00	20.50	
16	Bromine	7726-95-6	11.50	4.00	0.00	15.50	
17	Chlorine dioxide	10049-04-4	11.50	4.00	0.00	15.50	
18	Oleum-E3*	8014-95-7	11.50	4.00	0.00	15.50	
19	Methyl bromide	74-83-9	11.38	4.00	0.50	15.88	
20	Phosphoryl Trichloride	10025-87-3	11.25	4.00	0.50	15.75	
21	Fluorotrichloromethane #(T3)	75-69-4	11.00	4.00	0.00	15.00	
22	Toluene-2,4-diisocyanate	584-84-9	10.63	4.00	0.00	14.63	
23	Hydrogen sulfide	7783-06-4	10.50	4.00	0.50	15.00	
24	Molybdochosphoric acid	51429-74-4	10.50	4.00	0.50	15.00	
25	Fluorine	7782-41-4	10.50	4.00	0.00	14.50	
26	Malathion * #(T3)	121-75-5	10.50	4.00	0.00	14.50	
27	Boron trichloride T3	10294-34-5	10.25	4.00	0.00	14.25	
28	Tungsten hexafluoride-T3*	7783-82-6	11.75	3.00	0.00	14.75	
29	Hexafluoroacetone E3	684-16-2	11.75	3.00	0.00	14.75	
30	Silicon tetrafluoride-T3*	7783-61-1	11.75	3.00	0.00	14.75	
31	Acetylene tetrabromide #(T3)	79-27-6	10.88	3.00	0.00	13.88	
32	o-Anisidine * #(T3)	90-04-0	10.88	3.00	0.00	13.88	
33	Sulfur trioxide	11/97446	10.75	3.00	0.00	13.75	
34	Hydrogen iodide T3	10034-85-2	10.75	3.00	0.00	13.75	
35	Parathion *	56-38-2	10.63	3.00	0.50	14.13	
36	Ethylene dibromide	106-93-4	10.50	3.00	0.00	13.50	
37	Phosphine	7803-51-2	10.25	3.00	0.50	13.75	
38	Chlorosulfonic acid E3	7790-94-5	10.25	3.00	0.00	13.25	
39	Boron tribromide T3	10294-33-4	10.25	3.00	0.00	13.25	
40	Thionyl chloride-E3*	7719-09-715	10.25	3.00	0.00	13.25	
41	Nitrogen dioxide	10102-44-0	13.00	2.00	0.50	15.50	
42	Sulfur tetrafluoride-T3*	7783-60-0	12.75	2.00	0.00	14.75	
43	Chlorine trifluoride E3	7790-91-2	12.13	2.00	0.00	14.13	
44	Germanium tetrafluoride T3	7783-58-6	11.75	2.00	0.00	13.75	
45	Arsine	7784-42-1	11.25	2.00	0.50	13.75	
46	Pentachlorophenol * #(T3)	87-86-5	11.00	2.00	0.00	13.00	
47	1,1,2,2-Tetrachloroethane #(T3)	79-34-5	10.50	2.00	0.00	12.50	
48	Azinphosmethyl * #(T3)	86-50-0	10.38	2.00	0.50	12.88	
49	Methylphenyldichlorosilane-T3*	149-74-6	10.25	2.00	0.00	12.25	

High Priority Inhalation/Ocular Hazard List

Rank	Chemical	CAS Number	Toxic (Operational) Hazard Score	Probability Section		Total Score
				Relative Probability Score	Threat Scores	
1	Ammonia	7664-41-7	10.38	10.00	5.00	25.38
2	Chlorine	7782-50-5	13.00	10.00	5.00	28.00
3	Formaldehyde E3	50-00-0	10.50	10.00	0.50	21.00
4	Hydrogen bromide	10035-10-6	12.00	5.00	0.00	17.00
5	Hydrogen chloride	7647-01-0	12.38	10.00	0.50	22.88
6	Hydrogen fluoride	7664-39-3	12.38	7.00	2.50	21.88
7	Hydrogen sulfide	7783-06-4	10.50	4.00	0.50	15.00
8	Mercury	7439-97-6	11.50	4.00	5.00	20.50
9	Methyl bromide	74-83-9	11.38	4.00	0.50	15.88
10	Nitric acid/Nitrogen Dioxide	7697-37-2	10.50	9.00	0.50	20.00
11	OMPA	152-16-9	12.50	4.00	0.50	17.00
12	Phosgene	75-44-5	14.38	4.00	0.50	18.88
13	Sulfur dioxide	7446-09-5	13.00	6.00	0.00	19.00
14	Sulfuric acid	7664-93-9	10.25	10.00	2.50	22.75

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
							# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
1	Chlorine	7782-50-5	20.00	3.00	5.00	8.00	63.00	5.00	344.00	5.00	10.00	5.00	23.00
2	Ammonia	7664-41-7	1100.00	1.00	5.00	6.00	56.00	5.00	348.00	5.00	10.00	5.00	21.00
3	Sulfuric acid	7664-93-9	7.47	4.00	2.50	6.50	66.00	5.00	544.00	5.00	10.00	2.50	19.00
4	Hydrogen chloride	7647-01-0	100.00	3.00	5.00	8.00	63.00	5.00	528.00	5.00	10.00	0.50	18.50
5	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	25.00	3.00	5.00	8.00	53.00	5.00	260.00	5.00	10.00	0.50	18.50
6	Calcium Carbonate #T3)	471-34-1	3.66	4.00	1.00	5.00	52.00	5.00	309.00	5.00	10.00	2.50	17.50
7	Hydrogen fluoride	7664-39-3	44.00	3.00	5.00	8.00	25.00	2.00	138.00	5.00	7.00	2.50	17.50
8	Calcium chloride	10043-52-4	88.19	3.00	1.00	4.00	43.00	4.00	208.00	5.00	9.00	2.50	15.50
9	Mercury	7439-97-6	1.08	4.00	2.50	6.50	14.00	1.00	24.00	3.00	4.00	5.00	15.50
10	Nitric acid	7697-37-2	92.00	3.00	2.50	5.50	49.00	4.00	226.00	5.00	9.00	0.50	15.00
11	Ammonium Chloride	12125-02-9	228.00	2.00	1.00	3.00	25.00	2.00	141.00	5.00	7.00	5.00	15.00
12	Isobutane-T3*	75-28-5	15000.00	0.00	5.00	5.00	68.00	5.00	409.00	5.00	10.00	0.00	15.00
13	Hydrogen T3	1333-74-0	500000.00	0.00	5.00	5.00	70.00	5.00	340.00	5.00	10.00	0.00	15.00
14	Propylene-T3*	115-07-1	500000.00	0.00	5.00	5.00	52.00	5.00	211.00	5.00	10.00	0.00	15.00
15	Acetylene-T3	74-86-2	6000.00	0.00	5.00	5.00	93.00	5.00	253.00	5.00	10.00	0.00	15.00
16	Copper sulfate #T3)	7758-98-7	3.92	4.00	1.00	5.00	29.00	2.00	188.00	5.00	7.00	2.50	14.50
17	Sodium Sulfate #T3)	7757-82-6	21.52	3.00	1.00	4.00	36.00	3.00	200.00	5.00	8.00	2.50	14.50
18	Phosgene	75-44-5	0.75	5.00	5.00	10.00	10.00	1.00	22.00	3.00	4.00	0.50	14.50
19	Hydrogen cyanide	74-90-8	15.00	3.00	2.50	5.50	13.00	1.00	25.00	3.00	4.00	5.00	14.50
20	Sodium hydroxide #E3)	1310-73-2	30.55	3.00	1.00	4.00	64.00	5.00	477.00	5.00	10.00	0.50	14.50
21	Arsenic Trioxide	1327-53-3	1.12	4.00	1.00	5.00	10.00	1.00	18.00	3.00	4.00	5.00	14.00
22	Sulfur dioxide	7446-09-5	30.00	3.00	5.00	8.00	27.00	2.00	79.00	4.00	6.00	0.00	14.00
23	Acetic acid #T3)	64-19-7	250.00	2.00	2.50	4.50	40.00	4.00	186.00	5.00	9.00	0.50	14.00
24	Hydrogen peroxide #E3)	7722-84-1	100.00	3.00	2.50	5.50	38.00	3.00	172.00	5.00	8.00	0.50	14.00
25	Propane	74-98-6	33000.00	0.00	5.00	5.00	42.00	4.00	142.00	5.00	9.00	0.00	14.00
26	Ethylene oxide	75-21-8	200.00	2.00	5.00	7.00	32.00	3.00	84.00	4.00	7.00	0.00	14.00
27	Dibasic sodium phosphate	10039-32-4	25.83	3.00	1.00	4.00	22.00	2.00	125.00	5.00	7.00	2.50	13.50
28	Silica #T3)	7631-86-9	203.72	2.00	1.00	3.00	30.00	3.00	131.00	5.00	8.00	2.50	13.50
29	Sodium bicarbonate #T3)	144-55-8	145.00	2.00	1.00	3.00	30.00	3.00	138.00	5.00	8.00	2.50	13.50
30	Calcium Hydroxide #T3)	1305-62-0	165.00	2.00	1.00	3.00	38.00	3.00	144.00	5.00	8.00	2.50	13.50
31	Kerosene #T3)	8008-20-6	57.53	3.00	2.50	5.50	35.00	3.00	102.00	5.00	8.00	0.00	13.50
32	Sodium Nitrate #T3)	7631-99-4	28.77	3.00	1.00	4.00	23.00	2.00	124.00	5.00	7.00	2.50	13.50
33	Chloroacetyl chloride E:	79-04-9	10.00	4.00	2.50	6.50	25.00	2.00	179.00	5.00	7.00	0.00	13.50
34	Aniline	62-33-3	20.00	3.00	2.50	5.50	16.00	1.00	64.00	4.00	5.00	2.50	13.00
35	Ethyl alcohol #T3)	64-17-5	3300.00	0.00	2.50	2.50	51.00	5.00	321.00	5.00	10.00	0.50	13.00
36	Ammonium nitrate, no organic coating	6484-52-2	152.73	2.00	1.00	3.00	52.00	5.00	182.00	5.00	10.00	0.00	13.00
37	Ammonium nitrate, with organic coating	6484-52-2	152.73	2.00	1.00	3.00	52.00	5.00	182.00	5.00	10.00	0.00	13.00
38	Chlorine dioxide	10049-04-4	2.40	4.00	5.00	9.00	14.00	1.00	33.00	3.00	4.00	0.00	13.00
39	1,3-Butadiene	106-99-0	22000.00	0.00	5.00	5.00	31.00	3.00	111.00	5.00	8.00	0.00	13.00
40	Boron trichloride T3	10294-34-5	2.50	4.00	5.00	9.00	16.00	1.00	13.00	3.00	4.00	0.00	13.00
41	Chloropyrifos #T3)	2921-88-2	5.23	4.00	1.00	5.00	17.00	1.00	71.00	4.00	5.00	2.50	12.50
42	Magnesium Oxide #T3)	1309-48-4	303.35	2.00	1.00	3.00	28.00	2.00	134.00	5.00	7.00	2.50	12.50
43	Sodium cyanide #T3)	143-33-9	19.96	3.00	1.00	4.00	21.00	2.00	52.00	4.00	6.00	2.50	12.50
44	Diethylene glycol	111-46-6	100.00	3.00	2.00	5.00	30.00	3.00	94.00	4.00	7.00	0.50	12.50
45	Potassium dichromate #T3)	7778-50-9	3.32	4.00	1.00	5.00	17.00	1.00	69.00	4.00	5.00	2.50	12.50
46	Sodium chlorate	7775-09-9	17.22	3.00	1.00	4.00	20.00	2.00	59.00	4.00	6.00	2.50	12.50
47	Carbon monoxide/Syngas	1333-74-0	500000.00	0.00	5.00	5.00	31.00	3.00	55.00	4.00	7.00	0.50	12.50
48	Hydrogen sulfide	7783-06-4	50.00	3.00	5.00	8.00	15.00	1.00	24.00	3.00	4.00	0.50	12.50
49	Arsine	7784-42-1	0.50	5.00	5.00	10.00	8.00	0.00	10.00	2.00	2.00	0.50	12.50
50	Phosphine	7803-51-2	3.60	4.00	5.00	9.00	9.00	0.00	13.00	3.00	3.00	0.50	12.50
51	Gypsum #T3 as K2CO3)	13397-24-5	88.39	3.00	1.00	4.00	36.00	3.00	127.00	5.00	8.00	0.00	12.00
52	Hydrogen bromide	10035-10-6	120.00	2.00	5.00	7.00	16.00	1.00	73.00	4.00	5.00	0.00	12.00
53	Lindane #T3)	58-89-9	4.20	4.00	1.00	5.00	3.00	0.00	9.00	2.00	2.00	5.00	12.00
54	Methylomyl	16752-77-5	30.13	3.00	1.00	4.00	9.00	0.00	46.00	3.00	3.00	5.00	12.00
55	Nitric oxide #I)	10102-43-9	20.00	3.00	5.00	8.00	11.00	1.00	12.00	3.00	4.00	0.00	12.00
56	OMPA	152-16-9	0.30	5.00	2.50	7.50	11.00	1.00	22.00	3.00	4.00	0.50	12.00
57	Phosphoric acid #T3)	7664-38-2	124.70	2.00	1.00	3.00	49.00	4.00	245.00	5.00	9.00	0.00	12.00
58	Boron trifluoride *	7637-07-2	39.66	3.00	5.00	8.00	11.00	1.00	28.00	3.00	4.00	0.00	12.00
59	Phosphoryl Trichloride	10025-87-3	0.85	5.00	2.50	7.50	14.00	1.00	50.00	3.00	4.00	0.50	12.00
60	Benzene	71-43-2	4000.00	0.00	2.50	2.50	42.00	4.00	291.00	5.00	9.00	0.50	12.00
61	Ethyl acetate #T3)	141-78-6	2000.00	1.00	2.50	3.50	30.00	3.00	139.00	5.00	8.00	0.50	12.00
62	Isobutyl alcohol #T3)	78-83-1	1600.00	1.00	2.50	3.50	27.00	2.00	80.00	4.00	6.00	2.50	12.00
63	Isopropyl alcohol #T3)	67-63-0	2000.00	1.00	2.50	3.50	24.00	2.00	90.00	4.00	6.00	2.50	12.00
64	Methyl alcohol	67-56-1	7200.00	0.00	2.50	2.50	47.00	4.00	268.00	5.00	9.00	0.50	12.00
65	Nitrobenzene #T3)	98-95-3	200.00	2.00	2.50	4.50	12.00	1.00	55.00	4.00	5.00	2.50	12.00
66	Toluene	108-88-3	4500.00	0.00	2.50	2.50	40.00	4.00	237.00	5.00	9.00	0.50	12.00
67	Phenone	7783-41-4	13.00	3.00	5.00	8.00	10.00	1.00	17.00	3.00	4.00	0.00	12.00
68	Butane T3	106-97-8	19000.00	0.00	5.00	5.00	36.00	3.00	97.00	4.00	7.00	0.00	12.00
69	Magnesium (powder)-T3*	7439-95-4	251.49	2.00	1.00	3.00	42.00	4.00	423.00	5.00	9.00	0.00	12.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
							# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
70	Dichlorosilane T ₂	4109-96-0	75.00	3.00	5.00	8.00	12.00	1.00	12.00	3.00	4.00	0.00	12.00
71	Ethylene T ₃	74-85-1	15000.00	0.00	5.00	5.00	20.00	2.00	173.00	5.00	7.00	0.00	12.00
72	Potassium ferrocyanide #T3)	13943-58-3	3.42	4.00	1.00	5.00	12.00	1.00	38.00	3.00	4.00	2.50	11.50
73	Sodium chloride #T3)	7647-14-5	209.19	2.00	1.00	3.00	38.00	3.00	175.00	5.00	8.00	0.50	11.50
74	Sodium dodecyl sulfate #T3)	151-21-3	42.39	3.00	1.00	4.00	27.00	2.00	104.00	5.00	7.00	0.50	11.50
75	Zinc	7440-66-6	74.79	3.00	1.00	4.00	31.00	3.00	90.00	4.00	7.00	0.50	11.50
76	Dibutyl phthalate ##T3)	84-74-2	43.90	3.00	2.50	5.50	27.00	2.00	88.00	4.00	6.00	0.00	11.50
77	Methyl bromide	74-83-9	740.00	2.00	5.00	7.00	10.00	1.00	17.00	3.00	4.00	0.50	11.50
78	Potassium Hydroxide #T3)	1310-58-3	65.36	3.00	1.00	4.00	24.00	2.00	107.00	5.00	7.00	0.50	11.50
79	Silver nitrate #T3)	7761-88-8	2.17	4.00	1.00	5.00	22.00	2.00	80.00	4.00	6.00	0.50	11.50
80	Ethanolamine #T3)	141-43-5	30.00	3.00	2.50	5.50	20.00	2.00	72.00	4.00	6.00	0.00	11.50
81	Formic acid #T3)	64-18-6	30.00	3.00	2.50	5.50	26.00	2.00	84.00	4.00	6.00	0.00	11.50
82	Phosphorus trichloride	7719-12-2	5.60	4.00	2.50	6.50	11.00	1.00	57.00	4.00	5.00	0.00	11.50
83	Toluene-2,4-diisocyanate	584-84-9	0.51	5.00	2.50	7.50	12.00	1.00	20.00	3.00	4.00	0.00	11.50
84	Xylenes #T3)	95-47-6	900.00	2.00	2.50	4.50	32.00	3.00	76.00	4.00	7.00	0.00	11.50
85	Selenium hexafluoride	7783-79-1	0.26	5.00	5.00	10.00	2.00	0.00	2.00	1.00	1.00	0.00	11.00
86	Dichlorvos	62-73-7	100.00	3.00	2.50	5.50	12.00	1.00	52.00	4.00	5.00	0.50	11.00
87	Iron oxide #T3)	1309-37-1	76.55	3.00	1.00	4.00	27.00	2.00	141.00	5.00	7.00	0.00	11.00
88	Tetrafluoroboric acid #T3)	16872-11-0	11.14	3.00	2.50	5.50	17.00	1.00	60.00	4.00	5.00	0.50	11.00
89	Sulfur tetrafluoride-T ₃ ^a	7783-60-0	2.08	4.00	5.00	9.00	2.00	0.00	6.00	2.00	2.00	0.00	11.00
90	Tungsten hexafluoride-T ₃ ^a	7783-82-6	32.84	3.00	5.00	8.00	8.00	0.00	17.00	3.00	3.00	0.00	11.00
91	Hexafluoroacetone E ₁	684-16-2	50.00	3.00	5.00	8.00	6.00	0.00	18.00	3.00	3.00	0.00	11.00
92	Silicon tetrafluoride-T ₃ ^a	7783-61-1	100.00	3.00	5.00	8.00 ^b	9.00	0.00	15.00	3.00	3.00	0.00	11.00
93	Parathion ^c	56-38-2	0.17	5.00	2.50	7.50	3.00	0.00	11.00	3.00	3.00	0.50	11.00
94	Chlorine trifluoride E ₁	7790-91-2	10.00	4.00	5.00	9.00	4.00	0.00	8.00	2.00	2.00	0.00	11.00
95	Dimethylamine	124-40-3	250.00	2.00	5.00	7.00	14.00	1.00	41.00	3.00	4.00	0.00	11.00
96	Ethylamine	75-04-7	270.00	2.00	5.00	7.00	14.00	1.00	33.00	3.00	4.00	0.00	11.00
97	Methylamine	74-89-5	350.00	2.00	5.00	7.00	14.00	1.00	46.00	3.00	4.00	0.00	11.00
98	Aluminum (powder) *T ₃	7429-90-5	226.54	2.00	1.00	3.00	39.00	3.00	520.00	5.00	8.00	0.00	11.00
99	Diborane	19287-45-7	3.70	4.00	5.00	9.00	7.00	0.00	8.00	2.00	2.00	0.00	11.00
100	Nitrolycerin #T3)	55-63-0	8.07	4.00	2.50	6.50	13.00	1.00	22.00	3.00	4.00	0.50	11.00
101	Bromine	7726-95-6	8.50	4.00	2.50	6.50	12.00	1.00	50.00	3.00	4.00	0.00	10.50
102	Carbendazim	10605-71-7	3.25	4.00	1.00	5.00	16.00	1.00	62.00	4.00	5.00	0.50	10.50
103	Cobalt dichloride #T3)	7646-79-9	51.39	3.00	1.00	4.00	22.00	2.00	90.00	4.00	6.00	0.50	10.50
104	Cyanogen Chloride	460-19-5	10.00	4.00	5.00	9.00	2.00	0.00	3.00	1.00	1.00	0.50	10.50
105	Iodine #E ₁	7551-56-2	5.00	4.00	1.00	5.00	19.00	1.00	89.00	4.00	5.00	0.50	10.50
106	Lead Oxide (#T3)	1309-60-0	10.22	3.00	1.00	4.00	10.00	1.00	20.00	3.00	4.00	2.50	10.50
107	Mercuric chloride #(T3 of Hg)	7487-94-7	1.08	4.00	1.00	5.00	9.00	0.00	21.00	3.00	3.00	2.50	10.50
108	Nitrogen dioxide	10102-44-0	20.00	3.00	5.00	8.00	7.00	0.00	9.00	2.00	2.00	0.50	10.50
109	Potassium cyanide #T3)	151-50-8	22.53	3.00	1.00	4.00	14.00	1.00	23.00	3.00	4.00	2.50	10.50
110	Potassium orthophosphate #T3 based on strontium orthophosphate)	7778-53-2	89.84	3.00	1.00	4.00	11.00	1.00	33.00	3.00	4.00	2.50	10.50
111	Oleum-E ₃ ^a	8014-95-7	4.12	4.00	2.50	6.50	9.00	0.00	81.00	4.00	4.00	0.00	10.50
112	Acephate	30560-19-1	5.00	4.00	1.00	5.00	9.00	0.00	49.00	3.00	3.00	2.50	10.50
113	Barium nitrate #T3	10022-31-8	7.02	4.00	1.00	5.00	15.00	1.00	72.00	4.00	5.00	0.50	10.50
114	Imidacloprid #E ₃	105827-78-9	2.03	4.00	1.00	5.00	10.00	1.00	75.00	4.00	5.00	0.50	10.50
115	Lead nitrate	10099-74-8	11.07	3.00	1.00	4.00	16.00	1.00	49.00	3.00	4.00	2.50	10.50
116	Potassium nitrate #T3)	7757-79-1	120.91	2.00	1.00	3.00	24.00	2.00	117.00	5.00	7.00	0.50	10.50
117	Benomyl	17804-35-2	0.84	5.00	1.00	6.00	10.00	1.00	23.00	3.00	4.00	0.50	10.50
118	Cyclohexanone #T3)	108-94-1	700.00	2.00	2.50	4.50	25.00	2.00	72.00	4.00	6.00	0.00	10.50
119	Paracetamol #E3-phenol)	103-90-2	200.00	2.00	1.00	3.00	23.00	2.00	106.00	5.00	7.00	0.50	10.50
120	Phenol #E ₃	108-95-2	200.00	2.00	1.00	3.00	26.00	2.00	129.00	5.00	7.00	0.50	10.50
121	Acetone	67-64-1	5700.00	0.00	2.50	2.50	30.00	3.00	146.00	5.00	8.00	0.00	10.50
122	Dimethyl sulfate	77-78-1	1.60	4.00	2.50	6.50	12.00	1.00	39.00	3.00	4.00	0.00	10.50
123	Ethylene dichloride #E ₃	107-06-2	300.00	2.00	2.50	4.50	28.00	2.00	70.00	4.00	6.00	0.00	10.50
124	Furfural #E ₃	98-01-1	100.00	3.00	2.50	5.50	19.00	1.00	66.00	4.00	5.00	0.00	10.50
125	n-Butyl acetate #E ₃	123-86-4	3000.00	0.00	2.50	2.50	30.00	3.00	124.00	5.00	8.00	0.00	10.50
126	n-Butyl alcohol #T3)	71-36-3	1400.00	1.00	2.50	3.50	26.00	2.00	106.00	5.00	7.00	0.00	10.50
127	Periodic acid	10450-60-9	0.54	5.00	1.00	6.00	10.00	1.00	21.00	3.00	4.00	0.50	10.50
128	Collodion #T3)	9004-70-0	12.23	3.00	2.50	5.50	22.00	2.00	40.00	3.00	5.00	0.00	10.50
129	Acrylonitrile	107-13-1	100.00	3.00	2.50	5.50	16.00	1.00	53.00	4.00	5.00	0.00	10.50
130	Styrene	100-42-5	1100.00	1.00	2.50	3.50	28.00	2.00	104.00	5.00	7.00	0.00	10.50
131	Cypermethrin #I as in pyrethrum)	52315-07-8	293.87	2.00	2.50	4.50	15.00	1.00	89.00	4.00	5.00	0.50	10.00
132	Fluorotrifluoromethane #T3)	75-69-4	2000.00	1.00	5.00	6.00	12.00	1.00	18.00	3.00	4.00	0.00	10.00
133	Molybdenophosphoric acid	51429-74-4	37.05	3.00	2.50	5.50	10.00	1.00	22.00	3.00	4.00	0.50	10.00
134	Phenyl ether/phenyl mixture (vapor) #I)	8004-13-5	10.00	4.00	5.00	9.00	3.00	0.00	3.00	1.00	1.00	0.00	10.00
135	Nitrosyl chloride-T ₃ ^a	2696-92-6	2.50	4.00	5.00	9.00	1.00	0.00	1.00	1.00	1.00	0.00	10.00
136	Dimethylformamide	68-12-2	530.00	2.00	2.50	4.50	19.00	1.00	64.00	4.00	5.00	0.50	10.00
137	Naphthalene #T3)	91-20-3	250.00	2.00	1.00	3.00	25.00	2.00	103.00	5.00	7.00	0.00	10.00
138	Sodium sulfide #T3)	1313-82-2	23.51	3.00	1.00	4.00	21.00	2.00	86.00	4.00	6.00	0.00	10.00
139	Sulfur trioxide	11/97446	160.00	2.00	5.00	7.00	7.00	0.00	13.00	3.00	3.00	0.00	10.00

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140	Germanium tetrafluoride T:	7783-58-6	82.25	3.00	5.00	8.00	2.00	0.00	7.00	2.00	2.00	0.00	10.00
141	Hydrogen iodide T:	10034-85-2	120.00	2.00	5.00	7.00	2.00	0.00	30.00	3.00	3.00	0.00	10.00
142	Cyclohexane #(T3)	110-82-7	1300.00	1.00	2.50	3.50	26.00	2.00	75.00	4.00	6.00	0.50	10.00
143	p-Phenylene diamine * #(T3)	106-50-3	5.70	4.00	1.00	5.00	12.00	1.00	52.00	4.00	5.00	0.00	10.00
144	Hydrogen selenide	7783-07-5	2.20	4.00	5.00	9.00	5.00	0.00	5.00	1.00	1.00	0.00	10.00
145	Trimethylamine-E3*	75-50-3	500.00	2.00	5.00	7.00	8.00	0.00	41.00	3.00	3.00	0.00	10.00
146	Ethane T3	74-84-0	25000.00	0.00	5.00	5.00	28.00	2.00	33.00	3.00	5.00	0.00	10.00
147	Methyl mercaptan	74-93-1	68.00	3.00	5.00	8.00	6.00	0.00	9.00	2.00	2.00	0.00	10.00
148	Nitrogen trifluoride #(T3)	7783-54-2	800.00	2.00	5.00	7.00	7.00	0.00	16.00	3.00	3.00	0.00	10.00
149	Oxygen difluoride	7783-41-7	2.50	4.00	5.00	9.00	2.00	0.00	2.00	1.00	1.00	0.00	10.00
150	Diazomethane #(T3)	334-88-3	2.00	4.00	5.00	9.00	2.00	0.00	2.00	1.00	1.00	0.00	10.00
151	Benzoyl peroxide* #(T3)	94-36-0	50.47	3.00	1.00	4.00	22.00	2.00	70.00	4.00	6.00	0.00	10.00
152	Cadmium	7440-43-9	1.96	4.00	1.00	5.00	19.00	1.00	37.00	3.00	4.00	0.50	9.50
153	Copper oxychloride #(E3)	1332-40-7	100.00	3.00	1.00	4.00	21.00	2.00	41.00	3.00	5.00	0.50	9.50
154	Dimethane #(T3)	60-51-5	3.19	4.00	1.00	5.00	11.00	1.00	39.00	3.00	4.00	0.50	9.50
155	Endosulfan	115-29-7	2.10	4.00	1.00	5.00	11.00	1.00	32.00	3.00	4.00	0.50	9.50
156	Malathion * #(T3)	121-75-5	18.50	3.00	2.50	5.50	11.00	1.00	33.00	3.00	4.00	0.00	9.50
157	Red mercuric oxide	21908-53-2	1.08	4.00	1.00	5.00	11.00	1.00	26.00	3.00	4.00	0.50	9.50
158	Sodium fluoride #(T3)	7681-99-4	43.76	3.00	1.00	4.00	16.00	1.00	85.00	4.00	5.00	0.50	9.50
159	Strychnine Sulfate #(T3)	60-41-3	0.29	5.00	1.00	6.00	1.00	0.00	3.00	1.00	1.00	2.50	9.50
160	Acetylene tetrabromide #(T3)	79-27-6	8.00	4.00	2.50	6.50	6.00	0.00	11.00	3.00	3.00	0.00	9.50
161	Ammonium persulfate *T3	7727-54-0	10.71	3.00	1.00	4.00	12.00	1.00	57.00	4.00	5.00	0.50	9.50
162	Atrazine *T3	1912-24-9	1.50	4.00	1.00	5.00	10.00	1.00	23.00	3.00	4.00	0.50	9.50
163	Castor oil #(T3)	8001-79-4	13.12	3.00	2.50	5.50	18.00	1.00	50.00	3.00	4.00	0.00	9.50
164	Cobalt (II) nitrate	10141-05-6	12.60	3.00	1.00	4.00	18.00	1.00	70.00	4.00	5.00	0.50	9.50
165	Dimethylphthalate * #(T3)	131-11-3	62.96	3.00	2.50	5.50	16.00	1.00	36.00	3.00	4.00	0.00	9.50
166	o-Anisidine * #(T3)	90-04-0	9.93	4.00	2.50	6.50	5.00	0.00	24.00	3.00	3.00	0.00	9.50
167	Parquat * (dichloride)	1910-42-5	19.60	3.00	1.00	4.00	8.00	0.00	29.00	3.00	3.00	2.50	9.50
168	Potassium permanganate #(T3)	7722-64-7	19.34	3.00	1.00	4.00	16.00	1.00	57.00	4.00	5.00	0.50	9.50
169	Tributyl phosphate #(T3)	126-73-8	30.00	3.00	2.50	5.50	10.00	1.00	37.00	3.00	4.00	0.00	9.50
170	MDEA-R* (N-Methylidethanolamine)	105-59-9	150.00	2.00	2.50	4.50	24.00	2.00	44.00	3.00	5.00	0.00	9.50
171	Dicofol #(T3)	115-32-2	0.50	5.00	1.00	6.00	8.00	0.00	18.00	3.00	3.00	0.50	9.50
172	Ethylenediamine	107-15-3	20.00	3.00	2.50	5.50	12.00	1.00	32.00	3.00	4.00	0.00	9.50
173	N,N-Dimethylaniline #(T3)	121-69-7	100.00	3.00	2.50	5.50	11.00	1.00	41.00	3.00	4.00	0.00	9.50
174	o-Toluidine #(T3)	95-53-4	50.00	3.00	2.50	5.50	11.00	1.00	32.00	3.00	4.00	0.00	9.50
175	Phosphorus	7723-14-0	3.16	4.00	1.00	5.00	11.00	1.00	49.00	3.00	4.00	0.50	9.50
176	Chlorosulfonic acid E5	7790-94-5	6.29	4.00	2.50	6.50	6.00	0.00	38.00	3.00	3.00	0.00	9.50
177	Boron tribromide T2	10294-33-4	5.00	4.00	2.50	6.50	3.00	0.00	12.00	3.00	3.00	0.00	9.50
178	Thionyl chloride-E3*	7719-09-715	10.00	4.00	2.50	6.50	0.00	0.00	23.00	3.00	3.00	0.00	9.50
179	Titanium tetrachloride-E3*	7550-45-0	12.89	3.00	2.50	5.50	15.00	1.00	25.00	3.00	4.00	0.00	9.50
180	Acetic anhydride #(T3)	108-24-7	200.00	2.00	2.50	4.50	19.00	1.00	55.00	4.00	5.00	0.00	9.50
181	Benzyl chloride #(E3)	100-44-7	25.00	3.00	2.50	5.50	12.00	1.00	41.00	3.00	4.00	0.00	9.50
182	Chlorobenzene	108-90-7	400.00	2.00	2.50	4.50	13.00	1.00	53.00	4.00	5.00	0.00	9.50
183	Ethyl benzene	100-41-4	1800.00	1.00	2.50	3.50	21.00	2.00	51.00	4.00	6.00	0.00	9.50
184	Furfuryl alcohol #(T3)	98-00-0	75.00	3.00	2.50	5.50	12.00	1.00	38.00	3.00	4.00	0.00	9.50
185	Hexone #(T3)	108-10-1	500.00	2.00	2.50	4.50	17.00	1.00	52.00	4.00	5.00	0.00	9.50
186	Isoamyl alcohol (primary and secondary) #(T3)	123-51-3	500.00	2.00	2.50	4.50	18.00	1.00	60.00	4.00	5.00	0.00	9.50
187	Isobutyl acetate #(T3)	110-19-0	1300.00	1.00	2.50	3.50	21.00	2.00	56.00	4.00	6.00	0.00	9.50
188	Methyl chloroformate-T3*	79-22-1	4.00	4.00	2.50	6.50	2.00	0.00	23.00	3.00	3.00	0.00	9.50
189	2-chlorobenzoyl Chloride	609-65-4	1.00	5.00	1.00	6.00	5.00	0.00	26.00	3.00	3.00	0.50	9.50
190	Cumene	98-82-8	730.00	2.00	2.50	4.50	20.00	2.00	39.00	3.00	5.00	0.00	9.50
191	p-Nitrochlorobenzene * #(T3)	100-00-5	15.52	3.00	1.00	4.00	6.00	0.00	25.00	3.00	3.00	2.50	9.50
192	Iron, pentacarbonyl-T ₂	13463-40-6	0.76	5.00	2.50	7.50	1.00	0.00	8.00	2.00	2.00	0.00	9.50
193	Acetone cyanohydrin, stabilized-T3	75-86-5	15.00	3.00	2.50	5.50	13.00	1.00	22.00	3.00	4.00	0.00	9.50
194	Acetyl Bromide T3	506-96-7	20.00	3.00	2.50	5.50	10.00	1.00	23.00	3.00	4.00	0.00	9.50
195	Epichlorohydrin #(I)	106-89-8	75.00	3.00	2.50	5.50	15.00	1.00	34.00	3.00	4.00	0.00	9.50
196	Ethyl ether #(T3)	60-29-7	1900.00	1.00	2.50	3.50	20.00	2.00	57.00	4.00	6.00	0.00	9.50
197	Acrylic Chloride T3	814-68-6	10.00	4.00	2.50	6.50	5.00	0.00	15.00	3.00	3.00	0.00	9.50
198	Chloromethyl methyl ether E:	107-30-2	10.00	4.00	2.50	6.50	8.00	0.00	11.00	3.00	3.00	0.00	9.50
199	Acrolein	107-02-8	1.40	4.00	2.50	6.50	7.00	0.00	12.00	3.00	3.00	0.00	9.50
200	Propylene oxide	75-56-9	870.00	2.00	2.50	4.50	16.00	1.00	54.00	4.00	5.00	0.00	9.50
201	Sodium borohydride #(T3)	16940-66-2	4.85	4.00	1.00	5.00	13.00	1.00	34.00	3.00	4.00	0.50	9.50
202	Carbon tetrachloride	56-23-5	520.00	2.00	2.50	4.50	16.00	1.00	49.00	3.00	4.00	0.50	9.00
203	Chloroform	67-66-3	3200.00	0.00	2.50	2.50	20.00	2.00	81.00	4.00	6.00	0.50	9.00
204	Delamethrin #(I as in pyrethrum)	52918-63-5	293.87	2.00	2.50	4.50	15.00	1.00	41.00	3.00	4.00	0.50	9.00
205	Dichlorodifluoromethane #(T3)	75-71-8	15000.00	0.00	5.00	5.00	14.00	1.00	25.00	3.00	4.00	0.00	9.00
206	Phosphamidon #(T3)	13171-21-6	0.49	5.00	2.50	7.50	3.00	0.00	4.00	1.00	1.00	0.50	9.00
207	Sulfuryl fluoride	26997-9-8	64.00	3.00	5.00	8.00	4.00	0.00	5.00	1.00	1.00	0.00	9.00
208	Thiram * #(T3)	137-26-8	10.20	3.00	1.00	4.00	17.00	1.00	72.00	4.00	5.00	0.00	9.00
209	Diphenyl Ether #(T3)	101-84-8	100.00	3.00	2.50	5.50	5.00	0.00	23.00	3.00	3.00	0.50	9.00

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210	Fenvalerate	51630-58-1	29.11	3.00	2.50	5.50	6.00	0.00	48.00	3.00	3.00	0.50	9.00
211	Methyl iodide #(E3)	74-88-4	125.00	2.00	2.50	4.50	10.00	1.00	40.00	3.00	4.00	0.50	9.00
212	Methylene chloride	75-09-2	6900.00	0.00	2.50	2.50	21.00	2.00	83.00	4.00	6.00	0.50	9.00
213	Oxalic acid * #(T3)	144-62-7	135.77	2.00	1.00	3.00	16.00	1.00	106.00	5.00	6.00	0.00	9.00
214	Phosphotungstic acid #(T3 of tungstic acid)	12067-99-1	13.60	3.00	2.50	5.50	9.00	0.00	21.00	3.00	3.00	0.50	9.00
215	Polyprophosphoric acid	68333-79-9	14.47	3.00	2.50	5.50	9.00	0.00	26.00	3.00	3.00	0.50	9.00
216	TEPP * #(T3)	107-49-3	0.42	5.00	2.50	7.50	1.00	0.00	1.00	1.00	1.00	0.50	9.00
217	Carbonyl fluoride T3	353-50-4	20.00	3.00	5.00	8.00	1.00	0.00	3.00	1.00	1.00	0.00	9.00
218	2-Diethylaminoethanol #(I)	100-37-8	100.00	3.00	2.50	5.50	0.00	0.00	23.00	3.00	3.00	0.50	9.00
219	Bromoxynil #(T3-as naptha solution only)	1689-84-5	80.00	3.00	2.50	5.50	5.00	0.00	14.00	3.00	3.00	0.50	9.00
220	Methylene bisphenyl isocyanate * #(E3)	101-68-2	2.40	4.00	1.00	5.00	12.00	1.00	25.00	3.00	4.00	0.00	9.00
221	Tetramethylmethylenediamine #(T8)	110-18-9	125.00	2.00	2.50	4.50	10.00	1.00	18.00	3.00	4.00	0.50	9.00
222	Aluminum chloride, anhydrous T3	7446-70-0	91.68	3.00	1.00	4.00	10.00	1.00	99.00	4.00	5.00	0.00	9.00
223	Acetonitrile	75-05-8	670.00	2.00	2.50	4.50	19.00	1.00	50.00	3.00	4.00	0.50	9.00
224	Chloropicrin	76-06-2	1.40	4.00	2.50	6.50	3.00	0.00	7.00	2.00	2.00	0.50	9.00
225	n-Amyl acetate #(T3)	628-63-7	1000.00	2.00	2.50	4.50	14.00	1.00	37.00	3.00	4.00	0.50	9.00
226	n-Propyl alcohol #(T3)	71-23-8	800.00	2.00	2.50	4.50	18.00	1.00	50.00	3.00	4.00	0.50	9.00
227	Tetrahydrofuran #(T3)	109-99-9	5000.00	0.00	2.50	2.50	21.00	2.00	65.00	4.00	6.00	0.50	9.00
228	Chlorine pentafluoride T3	13637-63-3	60.00	3.00	5.00	8.00	1.00	0.00	1.00	1.00	1.00	0.00	9.00
229	Dioxane	123-91-1	760.00	2.00	2.50	4.50	12.00	1.00	34.00	3.00	4.00	0.50	9.00
230	Methyl chloride	74-87-3	3000.00	0.00	5.00	5.00	17.00	1.00	46.00	3.00	4.00	0.00	9.00
231	1-Butene T3	106-98-9	500000.00	0.00	5.00	5.00	15.00	1.00	50.00	3.00	4.00	0.00	9.00
232	Perchloryl fluoride #(T3)	7616-94-6	100.00	3.00	5.00	8.00	1.00	0.00	1.00	1.00	1.00	0.00	9.00
233	Cyanogen T3	460-19-5	15.00	3.00	5.00	8.00	2.00	0.00	2.00	1.00	1.00	0.00	9.00
234	Carbonyl sulfide T3	463-58-1	125.00	2.00	5.00	7.00	2.00	0.00	10.00	2.00	2.00	0.00	9.00
235	Vinyl chloride-T3*	75-01-4	20000.00	0.00	5.00	5.00	6.00	0.00	63.00	4.00	4.00	0.00	9.00
236	Methyl ether-T3*	115-10-6	60000.00	0.00	5.00	5.00	15.00	1.00	27.00	3.00	4.00	0.00	9.00
237	Diffuoroethane T3	75-37-6	75000.00	0.00	5.00	5.00	14.00	1.00	15.00	3.00	4.00	0.00	9.00
238	Sodium hydrosulfite-T3*	7775-14-6	35.11	3.00	1.00	4.00	20.00	2.00	48.00	3.00	5.00	0.00	9.00
239	Stibine	7803-52-3	9.60	4.00	5.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00
240	Hydrazine	302-01-2	35.00	3.00	2.50	5.50	9.00	0.00	12.00	3.00	3.00	0.50	9.00
241	Germane T3	7782-65-2	150.00	2.00	5.00	7.00	2.00	0.00	6.00	2.00	2.00	0.00	9.00
242	Silane-T3*	7803-62-5	4000.00	0.00	5.00	5.00	16.00	1.00	30.00	3.00	4.00	0.00	9.00
243	Ethyl nitrite T3	109-95-5	60.00	3.00	5.00	8.00	1.00	0.00	1.00	1.00	1.00	0.00	9.00
244	Arsenic T3	7440-38-2	1.63	4.00	1.00	5.00	6.00	0.00	11.00	3.00	3.00	0.50	8.50
245	Bromoform #(T3)	75-25-2	850.00	2.00	2.50	4.50	10.00	1.00	24.00	3.00	4.00	0.00	8.50
246	Ethylene dibromide	106-93-4	46.00	3.00	2.50	5.50	7.00	0.00	27.00	3.00	3.00	0.00	8.50
247	Metalauryl #(T3 of parent diisyl methyl carbamate)	57837-19-1	1.63	4.00	1.00	5.00	8.00	0.00	25.00	3.00	3.00	0.50	8.50
248	Metrizbuin #(T3 as diazo compound)	21087-64-9	10.98	3.00	1.00	4.00	11.00	1.00	23.00	3.00	4.00	0.50	8.50
249	Phosdrin #(T3) (Mevinphos)	7786-34-7	0.44	5.00	2.50	7.50	4.00	0.00	5.00	1.00	1.00	0.00	8.50
250	Potassium fluoride #(T3)	7789-23-3	210.38	2.00	1.00	3.00	14.00	1.00	82.00	4.00	5.00	0.50	8.50
251	Sodium borate	12179-04-3	32.09	3.00	1.00	4.00	6.00	0.00	10.00	2.00	2.00	2.50	8.50
252	TEEDP * #(T3)	3689-24-5	0.76	5.00	2.50	7.50	1.00	0.00	1.00	1.00	1.00	0.00	8.50
253	Azirinomethyl * #(T3)	86-50-0	0.77	5.00	1.00	6.00	5.00	0.00	7.00	2.00	2.00	0.50	8.50
254	Bismuth *#(3) of BiOCl	7440-69-9	47.00	3.00	1.00	4.00	15.00	1.00	26.00	3.00	4.00	0.50	8.50
255	Mercuric nitrate	10045-94-0	1.07	4.00	1.00	5.00	8.00	0.00	14.00	3.00	3.00	0.50	8.50
256	Methiodation #(T3)	950-37-8	32.35	3.00	1.00	4.00	4.00	0.00	9.00	2.00	2.00	2.50	8.50
257	Methyl parathion #(T3)	298-00-0	1.39	4.00	1.00	5.00	7.00	0.00	25.00	3.00	3.00	0.50	8.50
258	4-chlorobutynonitrile (as CN)	628-20-6	25.00	3.00	2.50	5.50	4.00	0.00	11.00	3.00	3.00	0.00	8.50
259	Barium T3	7440-39-3	22.31	3.00	1.00	4.00	11.00	1.00	13.00	3.00	4.00	0.50	8.50
260	Cyclohexanol T3	108-93-0	400.00	2.00	2.50	4.50	15.00	1.00	27.00	3.00	4.00	0.00	8.50
261	Dichloroethyl ether #(T3)	111-44-4	100.00	3.00	2.50	5.50	4.00	0.00	12.00	3.00	3.00	0.00	8.50
262	Dimethyl acetamide T3	127-19-5	300.00	2.00	2.50	4.50	11.00	1.00	38.00	3.00	4.00	0.00	8.50
263	Ethylene chlorohydrin	107-07-3	12.00	3.00	2.50	5.50	6.00	0.00	17.00	3.00	3.00	0.00	8.50
264	Methyl (n-amy1) ketone #(T3)	110-43-0	800.00	2.00	2.50	4.50	11.00	1.00	20.00	3.00	4.00	0.00	8.50
265	Monomethyl aniline T3	100-61-8	100.00	3.00	2.50	5.50	6.00	0.00	17.00	3.00	3.00	0.00	8.50
266	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	88-72-2; 99-08-1; 99-99-0	60.00	3.00	2.50	5.50	7.00	0.00	19.00	3.00	3.00	0.00	8.50
267	Perchloromethyl mercaptan	594-42-3	0.90	5.00	2.50	7.50	3.00	0.00	5.00	1.00	1.00	0.00	8.50
268	Phenylhydrazine T3	100-63-0	15.00	3.00	2.50	5.50	8.00	0.00	23.00	3.00	3.00	0.00	8.50
269	Sodium azide #(T3)	26628-22-8	4.69	4.00	1.00	5.00	8.00	0.00	35.00	3.00	3.00	0.50	8.50
270	Methylphenyldichlorosilane-T3*	149-74-6	2.56	4.00	2.50	6.50	1.00	0.00	6.00	2.00	2.00	0.00	8.50
271	Sulfuryl chloride-T3*	7791-25-5	15.00	3.00	2.50	5.50	7.00	0.00	17.00	3.00	3.00	0.00	8.50
272	Diethylamine T3	109-89-7	200.00	2.00	2.50	4.50	16.00	1.00	39.00	3.00	4.00	0.00	8.50
273	Isoamyl acetate #(T3)	123-92-2	1000.00	2.00	2.50	4.50	13.00	1.00	46.00	3.00	4.00	0.00	8.50
274	Methyl Cellosolve (r) #(I)	109-86-4	200.00	2.00	2.50	4.50	13.00	1.00	30.00	3.00	4.00	0.00	8.50
275	N-Ethylmorpholine #(I)	100-74-3	100.00	3.00	2.50	5.50	7.00	0.00	12.00	3.00	3.00	0.00	8.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
							# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
276	n-Heptane #(#T3)	142-82-5	750.00	2.00	2.50	4.50	17.00	1.00	48.00	3.00	4.00	0.00	8.50
277	n-Hexane	110-54-3	8600.00	0.00	2.50	2.50	23.00	2.00	78.00	4.00	6.00	0.00	8.50
278	Pyridine #(#T3)	110-86-1	1000.00	2.00	2.50	4.50	15.00	1.00	49.00	3.00	4.00	0.00	8.50
279	Sulfur monochloride	10025-67-9	15.00	3.00	2.50	5.50	8.00	0.00	15.00	3.00	3.00	0.00	8.50
280	Triethylamine #(#T3)	121-44-8	200.00	2.00	2.50	4.50	17.00	1.00	46.00	3.00	4.00	0.00	8.50
281	Cyclohexylamine T;	108-91-8	30.00	3.00	2.50	5.50	8.00	0.00	32.00	3.00	3.00	0.00	8.50
282	Propyl chloroformate-T3*	109-61-5	60.00	3.00	2.50	5.50	2.00	0.00	12.00	3.00	3.00	0.00	8.50
283	Piperidine-T3*	110-89-4	250.00	2.00	2.50	4.50	11.00	1.00	21.00	3.00	4.00	0.00	8.50
284	Allyl alcohol	107-18-6	20.00	3.00	2.50	5.50	6.00	0.00	13.00	3.00	3.00	0.00	8.50
285	Allyl chloride	107-05-1	140.00	2.00	2.50	4.50	11.00	1.00	19.00	3.00	4.00	0.00	8.50
286	Carbon disulfide	75-15-0	480.00	2.00	2.50	4.50	16.00	1.00	45.00	3.00	4.00	0.00	8.50
287	Ethyl silicate #(#E3)	78-10-4	300.00	2.00	2.50	4.50	10.00	1.00	39.00	3.00	4.00	0.00	8.50
288	Isopropylamine #(#T3)	75-31-0	750.00	2.00	2.50	4.50	13.00	1.00	30.00	3.00	4.00	0.00	8.50
289	n-Pentane #(#T3)	109-66-0	1500.00	1.00	2.50	3.50	20.00	2.00	47.00	3.00	5.00	0.00	8.50
290	Chloromethyl ether E3	542-88-1	0.50	5.00	2.50	7.50	1.00	0.00	1.00	1.00	1.00	0.00	8.50
291	Propionitrile-T3*	107-12-0	37.00	3.00	2.50	5.50	3.00	0.00	14.00	3.00	3.00	0.00	8.50
292	Phenyltrichlorosilane-T3*	98-13-5	4.62	4.00	2.50	6.50	1.00	0.00	9.00	2.00	2.00	0.00	8.50
293	Diketene	674-82-8	2.00	4.00	2.50	6.50	3.00	0.00	8.00	2.00	2.00	0.00	8.50
294	Ethyl acrylate	140-88-5	240.00	2.00	2.50	4.50	16.00	1.00	40.00	3.00	4.00	0.00	8.50
295	Methyl acrylate #(#T3)	96-33-3	150.00	2.00	2.50	4.50	16.00	1.00	46.00	3.00	4.00	0.00	8.50
296	Methyl hydrazine	60-34-4	2.70	4.00	2.50	6.50	4.00	0.00	6.00	2.00	2.00	0.00	8.50
297	Methyl isocyanate	624-83-9	0.20	5.00	2.50	7.50	2.00	0.00	2.00	1.00	1.00	0.00	8.50
298	Methyl methacrylate	80-62-6	570.00	2.00	2.50	4.50	17.00	1.00	48.00	3.00	4.00	0.00	8.50
299	Methyltrichlorosilane-E3*	75-79-6	15.00	3.00	2.50	5.50	3.00	0.00	15.00	3.00	3.00	0.00	8.50
300	Dimethyltrichlorosilane T;	75-78-5	75.00	3.00	2.50	5.50	4.00	0.00	20.00	3.00	3.00	0.00	8.50
301	Acetyl Chloride T2	75-36-5	125.00	2.00	2.50	4.50	10.00	1.00	37.00	3.00	4.00	0.00	8.50
302	Vinyl acetate monomer-E3*	108-05-4	500.00	2.00	2.50	4.50	4.00	0.00	53.00	4.00	4.00	0.00	8.50
303	Acetaldehyde	75-07-0	840.00	2.00	2.50	4.50	15.00	1.00	49.00	3.00	4.00	0.00	8.50
304	Trichlorosilane-E3*	10025-78-2	25.00	3.00	2.50	5.50	4.00	0.00	15.00	3.00	3.00	0.00	8.50
305	Nickel Carbonyl-T3*	13463-39-3	0.16	5.00	2.50	7.50	1.00	0.00	2.00	1.00	1.00	0.00	8.50
306	Trinitrotoluene	118-96-7	55.32	3.00	1.00	4.00	11.00	1.00	17.00	3.00	4.00	0.50	8.50
307	Diethyleneglycol dinitrate F	693-21-0	0.31	5.00	2.50	7.50	2.00	0.00	4.00	1.00	1.00	0.00	8.50
308	2-Aminopyridine #(#I)	504-29-0	5.00	4.00	1.00	5.00	6.00	0.00	20.00	3.00	3.00	0.00	8.00
309	2,4-D #(#T3)	94-75-7	11.06	3.00	1.00	4.00	15.00	1.00	32.00	3.00	4.00	0.00	8.00
310	Carbaryl #(#T3)	63-25-2	12.15	3.00	1.00	4.00	10.00	1.00	25.00	3.00	4.00	0.00	8.00
311	Demeton #(#T3) (Systox)	8065-48-3	0.95	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.50	8.00
312	Dinitrobenzene (o, m, p isomers) #(#T3)	528-29-0; 99-65-7; 0; 100-25-4	7.27	4.00	1.00	5.00	6.00	0.00	15.00	3.00	3.00	0.00	8.00
313	p-Anisidine #(#T3)	104-94-9	9.93	4.00	1.00	5.00	5.00	0.00	19.00	3.00	3.00	0.00	8.00
314	Pentachlorophenol #(#T3)	87-86-5	0.23	5.00	1.00	6.00	4.00	0.00	7.00	2.00	2.00	0.00	8.00
315	Warfarin #(#T3)	81-81-2	1.60	4.00	1.00	5.00	9.00	0.00	14.00	3.00	3.00	0.00	8.00
316	Dinitrogen tetroxide T;	10544-72-6	20.00	3.00	5.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00
317	Nitrogen trioxide-T3*	10544-73-7	500.00	2.00	5.00	7.00	1.00	0.00	2.00	1.00	1.00	0.00	8.00
318	2,6-di-tert-butyl-p-cresol #(#T3)	128-37-0	44.45	3.00	1.00	4.00	13.00	1.00	48.00	3.00	4.00	0.00	8.00
319	2-chloroacetophenone #IDLH	532-27-4	2.38	4.00	1.00	5.00	6.00	0.00	11.00	3.00	3.00	0.00	8.00
320	Di-syston #(#T3)	298-04-4	6.68	4.00	2.50	6.50	3.00	0.00	3.00	1.00	1.00	0.50	8.00
321	Hydroquinone #(#T3)	123-31-9	11.10	3.00	1.00	4.00	15.00	1.00	41.00	3.00	4.00	0.00	8.00
322	Oxylenemeton-methyl #(#I)	301-12-2	3.97	4.00	2.50	6.50	3.00	0.00	3.00	1.00	1.00	0.50	8.00
323	Trichlorethylene	79-01-6	3800.00	0.00	2.50	2.50	17.00	1.00	55.00	4.00	5.00	0.50	8.00
324	1-methyl imidazole LD50	616-47-7	417.00	2.00	2.50	4.50	8.00	0.00	22.00	3.00	3.00	0.50	8.00
325	2-thiophenecarbonitrile (as CN)	1003-31-2	25.00	3.00	2.50	5.50	4.00	0.00	9.00	2.00	2.00	0.50	8.00
326	Bromobenzene #(#T3)	108-86-1	350.00	2.00	2.50	4.50	8.00	0.00	34.00	3.00	3.00	0.50	8.00
327	Camphor (synthetic) #(#T3)	76-22-2	32.11	3.00	1.00	4.00	13.00	1.00	37.00	3.00	4.00	0.00	8.00
328	Phosphorus pentachloride #(#T3)	10026-13-8	8.22	4.00	1.00	5.00	7.00	0.00	17.00	3.00	3.00	0.00	8.00
329	Quinone #(#T3)	106-51-4	22.60	3.00	1.00	4.00	12.00	1.00	25.00	3.00	4.00	0.00	8.00
330	Toluene sulfonic acid (#T3 based on barium salt of the acid)	70788-37-3	70.99	3.00	2.50	5.50	5.00	0.00	6.00	2.00	2.00	0.50	8.00
331	Sulfur trioxide-E3*	7446-11-9	9.16	4.00	1.00	5.00	6.00	0.00	12.00	3.00	3.00	0.00	8.00
332	Potassium chlorate	381-04-9	69.83	3.00	1.00	4.00	11.00	1.00	38.00	3.00	4.00	0.00	8.00
333	Ethyl bromide #(#T3)	74-96-4	1500.00	1.00	2.50	3.50	10.00	1.00	37.00	3.00	4.00	0.50	8.00
334	Phosphorus pentasulfide #(#T3)	1314-80-3	27.50	3.00	1.00	4.00	12.00	1.00	28.00	3.00	4.00	0.00	8.00
335	Thioglycol TEEL-3	60-24-2	200.00	2.00	2.50	4.50	6.00	0.00	17.00	3.00	3.00	0.50	8.00
336	Acrylamide #(#T3)	79-06-1	20.64	3.00	1.00	4.00	14.00	1.00	48.00	3.00	4.00	0.00	8.00
337	Ethyl chloride #(#T3)	75-00-3	3800.00	0.00	5.00	5.00	8.00	0.00	21.00	3.00	3.00	0.00	8.00
338	Tetraethyl lead #(#T3)	78-00-2	4.51	4.00	2.50	6.50	1.00	0.00	2.00	1.00	1.00	0.50	8.00
339	1,1-Dimethylhydrazine	57-14-7	11.00	3.00	2.50	5.50	7.00	0.00	9.00	2.00	2.00	0.50	8.00
340	2-methylpropane-T3*	115-11-7	100000.00	0.00	5.00	5.00	3.00	0.00	40.00	3.00	3.00	0.00	8.00
341	Trinitrophenol-T3	88-89-1	8.00	4.00	1.00	5.00	8.00	0.00	18.00	3.00	3.00	0.00	8.00
342	Aluminum phosphide #T3	20859-73-8	8.44	4.00	1.00	5.00	2.00	0.00	17.00	3.00	3.00	0.00	8.00
343	Nitromethane #(#T3)	75-52-5	750.00	2.00	2.50	4.50	7.00	0.00	20.00	3.00	3.00	0.50	8.00
344	Trifluorochloroethylene-E3*	79-38-9	300.00	2.00	5.00	7.00	1.00	0.00	5.00	1.00	1.00	0.00	8.00
345	1,1,2,2-Tetrachloroethane #(#T3)	79-34-5	100.00	3.00	2.50	5.50	6.00	0.00	10.00	2.00	2.00	0.00	7.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
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346	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	76-13-1	2000.00	1.00	2.50	3.50	12.00	1.00	15.00	3.00	4.00	0.00	7.50
347	Boron #T3 of B2O3	7440-42-8	175.00	2.00	1.00	3.00	10.00	1.00	23.00	3.00	4.00	0.50	7.50
348	Butoprofen # (T3 based on limited acute toxicity pesticide)	69327-76-0	20.00	3.00	1.00	4.00	5.00	0.00	27.00	3.00	3.00	0.50	7.50
349	Carboxypatrin # (AEGL-3 of Cyano group of the carboxylate family)	39515-41-8	25.00	3.00	1.00	4.00	3.00	0.00	19.00	3.00	3.00	0.50	7.50
350	Iron phosphate # (T3 as iron)	10045-86-0	214.47	2.00	1.00	3.00	5.00	0.00	7.00	2.00	2.00	2.50	7.50
351	Methamidophos	10265-92-6	10.39	3.00	1.00	4.00	9.00	0.00	45.00	3.00	3.00	0.50	7.50
352	Sodium fluoracetate #(T3)	62-74-8	0.61	5.00	1.00	6.00	3.00	0.00	3.00	1.00	1.00	0.50	7.50
353	Sulfur pentfluoride #(T3)	5714-22-7	1.00	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
354	Tetrachloroethylene	127-18-4	1200.00	1.00	2.50	3.50	17.00	1.00	43.00	3.00	4.00	0.00	7.50
355	Trithion	786-19-6	0.49	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
356	1,1,2-Trichloroethane #(T3)	79-00-5	100.00	3.00	2.50	5.50	2.00	0.00	7.00	2.00	2.00	0.00	7.50
357	alpha-Chloroacetophenone # (I)	532-27-4	2.37	4.00	1.00	5.00	3.00	0.00	10.00	2.00	2.00	0.50	7.50
358	Bifenthrin Tox est. on Pyr.	82657-04-3	20.00	3.00	1.00	4.00	5.00	0.00	20.00	3.00	3.00	0.50	7.50
359	Biphenyl # #(T3)	92-52-4	15.80	3.00	1.00	4.00	7.00	0.00	18.00	3.00	3.00	0.50	7.50
360	guanidine hydrochloride	50-01-1	51.28	3.00	1.00	4.00	7.00	0.00	12.00	3.00	3.00	0.50	7.50
361	Mancobez	8018-01-7	146.00	2.00	1.00	3.00	12.00	1.00	41.00	3.00	4.00	0.50	7.50
362	Phenamphos #(T3)	22224-92-6	3.22	4.00	1.00	5.00	3.00	0.00	6.00	2.00	2.00	0.50	7.50
363	Thiophane methyl #(T3 of carbamate fungicides)	23564-05-8	11.00	3.00	1.00	4.00	8.00	0.00	30.00	3.00	3.00	0.50	7.50
364	Triehtanolamine-T3*	102-71-6	81.94	3.00	2.50	5.50	6.00	0.00	6.00	2.00	2.00	0.00	7.50
365	Antimony Pentafluoride T3	7783-70-2	8.46	4.00	2.50	6.50	3.00	0.00	4.00	1.00	1.00	0.00	7.50
366	2-Butoxyethanol #(T3)	111-76-2	700.00	2.00	2.50	4.50	1.00	0.00	43.00	3.00	3.00	0.00	7.50
367	2-Ethoxyethanol #(T3)	110-80-5	500.00	2.00	2.50	4.50	1.00	0.00	31.00	3.00	3.00	0.00	7.50
368	2-Ethoxyethyl acetate #(T3)	111-15-9	500.00	2.00	2.50	4.50	8.00	0.00	17.00	3.00	3.00	0.00	7.50
369	Allyl glycidyl ether #(I)	106-92-3	50.00	3.00	2.50	5.50	6.00	0.00	8.00	2.00	2.00	0.00	7.50
370	Chloroacetaldehyde	107-20-0	9.90	4.00	2.50	6.50	4.00	0.00	5.00	1.00	1.00	0.00	7.50
371	Diacetone alcohol #(T3)	123-42-2	1800.00	1.00	2.50	3.50	11.00	1.00	30.00	3.00	4.00	0.00	7.50
372	Dibutyl phosphate #(T3)	107-66-4	30.00	3.00	2.50	5.50	6.00	0.00	8.00	2.00	2.00	0.00	7.50
373	Disobutyl ketone #(T3)	108-83-8	200.00	2.00	2.50	4.50	8.00	0.00	13.00	3.00	3.00	0.00	7.50
374	Methyl isobutyl carbinal #(I)	108-11-2	400.00	2.00	2.50	4.50	9.00	0.00	14.00	3.00	3.00	0.00	7.50
375	n-Buyl glycidyl ether #(T3)	24264-8-6	250.00	2.00	2.50	4.50	7.00	0.00	13.00	3.00	3.00	0.00	7.50
376	p-Dichlorobenzene #(T3)	95-50-1	200.00	2.00	2.50	4.50	9.00	0.00	37.00	3.00	3.00	0.00	7.50
377	p-tert-Butyltoluene #(I)	98-51-1	100.00	3.00	2.50	5.50	4.00	0.00	6.00	2.00	2.00	0.00	7.50
378	Triehtyl phosphate-T3*	122-52-1	200.00	2.00	2.50	4.50	6.00	0.00	13.00	3.00	3.00	0.00	7.50
379	Iodine pentafluoride F	7783-66-6	98.07	3.00	2.50	5.50	2.00	0.00	8.00	2.00	2.00	0.00	7.50
380	1,2,3-Trichloropropane #(T3)	96-18-4	100.00	3.00	2.50	5.50	6.00	0.00	10.00	2.00	2.00	0.00	7.50
381	2-Butanone	78-93-3	4000.00	0.00	2.50	2.50	18.00	1.00	63.00	4.00	5.00	0.00	7.50
382	Chlorodiphenyl (42% chlorine)* #(T3)	53469-21-9	0.47	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
383	Diisopropylamine #(T3)	108-18-9	200.00	2.00	2.50	4.50	6.00	0.00	18.00	3.00	3.00	0.00	7.50
384	Isophorone #(T3)	78-59-1	200.00	2.00	2.50	4.50	7.00	0.00	13.00	3.00	3.00	0.00	7.50
385	Isopropyl acetate #(T3)	108-21-4	1800.00	1.00	2.50	3.50	14.00	1.00	41.00	3.00	4.00	0.00	7.50
386	n-Buylamine #(T3)	109-73-9	300.00	2.00	2.50	4.50	8.00	0.00	19.00	3.00	3.00	0.00	7.50
387	n-Propyl acetate #(I)	109-60-4	1700.00	1.00	2.50	3.50	12.00	1.00	31.00	3.00	4.00	0.00	7.50
388	Octane #(T3)	111-65-9	1000.00	2.00	2.50	4.50	8.00	0.00	15.00	3.00	3.00	0.00	7.50
389	Phenyl glycidyl ether #(I)	122-60-1	100.00	3.00	2.50	5.50	7.00	0.00	10.00	2.00	2.00	0.00	7.50
390	Propylene dichloride #(T3)	78-87-5	400.00	2.00	2.50	4.50	9.00	0.00	16.00	3.00	3.00	0.00	7.50
391	sec-Buyl alcohol #(T3)	78-92-2	2000.00	1.00	2.50	3.50	12.00	1.00	24.00	3.00	4.00	0.00	7.50
392	tert-Buyl alcohol #(T3)	75-65-0	1600.00	1.00	2.50	3.50	13.00	1.00	37.00	3.00	4.00	0.00	7.50
393	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o.o- T3	78-53-5	0.30	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
394	Ethyl phosphonothioic dichloride f	993-43-1	7.50	4.00	2.50	6.50	1.00	0.00	1.00	1.00	1.00	0.00	7.50
395	Fluorosulfonic acid T2	7789-21-1	7.33	4.00	2.50	6.50	1.00	0.00	2.00	1.00	1.00	0.00	7.50
396	Isopropyl ether #(T3)	108-20-3	1400.00	1.00	2.50	3.50	15.00	1.00	24.00	3.00	4.00	0.00	7.50
397	Allylamine *T2	107-11-9	18.00	3.00	2.50	5.50	5.00	0.00	9.00	2.00	2.00	0.00	7.50
398	Trimethyl phosphite-T3*	121-45-9	750.00	2.00	2.50	4.50	4.00	0.00	18.00	3.00	3.00	0.00	7.50
399	Ethytrichlorosilane T2	115-21-9	6.00	4.00	2.50	6.50	1.00	0.00	2.00	1.00	1.00	0.00	7.50
400	Boron trifluoride compound with methyl ether (1:1) T3	353-42-4	7.50	4.00	2.50	6.50	2.00	0.00	5.00	1.00	1.00	0.00	7.50
401	Crotonaldehyde	4170-30-3	14.00	3.00	2.50	5.50	6.00	0.00	9.00	2.00	2.00	0.00	7.50
402	Tetranitromethane	509-14-8	1.70	4.00	2.50	6.50	1.00	0.00	1.00	1.00	1.00	0.00	7.50
403	Tetramethylsilane-T3*	75-76-3	125.00	2.00	2.50	4.50	6.00	0.00	15.00	3.00	3.00	0.00	7.50
404	Trimethylchlorosilane-E3*	75-77-44	150.00	2.00	2.50	4.50	0.00	0.00	30.00	3.00	3.00	0.00	7.50
405	Diglycidyl ether # (T3)	2238-07-5	10.00	4.00	2.50	6.50	1.00	0.00	1.00	1.00	1.00	0.00	7.50
406	Ethyleneimine	151-56-4	9.90	4.00	2.50	6.50	3.00	0.00	3.00	1.00	1.00	0.00	7.50
407	Pentanone	19624-22-7	0.70	5.00	2.50	7.50	0.00	0.00	0.00	0.00	0.00	0.00	7.50
408	Vinylidene chloride, inhibited-T3*	75-35-4	600.00	2.00	2.50	4.50	2.00	0.00	12.00	3.00	3.00	0.00	7.50
409	Tetramethyllead-T3*	75-74-1	4.57	4.00	2.50	6.50	2.00	0.00	2.00	1.00	1.00	0.00	7.50
410	Pentaethyltetraniitrate #(T3)	78-11-5	38.97	3.00	1.00	4.00	9.00	0.00	12.00	3.00	3.00	0.50	7.50

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411	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	76-11-9	2000.00	1.00	5.00	6.00	2.00	0.00	3.00	1.00	1.00	0.00	7.00
412	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	76-12-0	2000.00	1.00	5.00	6.00	1.00	0.00	1.00	1.00	1.00	0.00	7.00
413	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL of hydantoins REV 22)	118-52-5	62.06	3.00	1.00	4.00	3.00	0.00	16.00	3.00	3.00	0.00	7.00
414	Chloroform-D	865-49-6	500.00	2.00	2.50	4.50	6.00	0.00	10.00	2.00	2.00	0.50	7.00
415	Dichlorotetrafluoroethane #(T3)	76-14-2	15000.00	0.00	5.00	5.00	6.00	0.00	6.00	2.00	2.00	0.00	7.00
416	Difentanilone (T3 based on warfarin)	104653-34-1	0.67	5.00	1.00	6.00	1.00	0.00	1.00	1.00	1.00	0.00	7.00
417	Dinitrocresol *#(T3)	534-52-1	0.62	5.00	1.00	6.00	2.00	0.00	3.00	1.00	1.00	0.00	7.00
418	Endrin *#(T3)	72-20-8	0.13	5.00	1.00	6.00	1.00	0.00	1.00	1.00	1.00	0.00	7.00
419	EPN *#(T3)	2104-64-5	0.38	5.00	1.00	6.00	2.00	0.00	4.00	1.00	1.00	0.00	7.00
420	Profenofos #(I)	41198-08-7	1600.00	1.00	2.50	3.50	4.00	0.00	21.00	3.00	3.00	0.50	7.00
421	Thallium sulfate #(T3 of TI)	7446-18-6	1.77	4.00	1.00	5.00	4.00	0.00	8.00	2.00	2.00	0.00	7.00
422	Trifluorobromomethane #(T3)	75-63-8	40000.00	0.00	5.00	5.00	7.00	0.00	9.00	2.00	2.00	0.00	7.00
423	Nitrogen mustard hydrochloride-T3*	55-86-7	0.51	5.00	1.00	6.00	3.00	0.00	3.00	1.00	1.00	0.00	7.00
424	Halothane (T,V)	151-67-7	50.00	3.00	2.50	5.50	3.00	0.00	4.00	1.00	1.00	0.50	7.00
425	Triphenyl phosphate*	115-86-6	37.47	3.00	1.00	4.00	5.00	0.00	21.00	3.00	3.00	0.00	7.00
426	p-Dichlorobenzene #(T3)	106-46-7	150.00	2.00	1.00	3.00	10.00	1.00	38.00	3.00	4.00	0.00	7.00
427	Potassium perchlorate-T3*	7778-74-7	88.24	3.00	1.00	4.00	7.00	0.00	27.00	3.00	3.00	0.00	7.00
428	o-Chlorobenzylidene malononitrile * #(T3)	2699-41-1	0.26	5.00	1.00	6.00	1.00	0.00	1.00	1.00	1.00	0.00	7.00
429	p-Nitroaniline * #(T3)	100-01-6	53.10	3.00	1.00	4.00	5.00	0.00	47.00	3.00	3.00	0.00	7.00
430	Dinitrotoluene * #(T3)	25321-14-6	6.70	4.00	1.00	5.00	6.00	0.00	9.00	2.00	2.00	0.00	7.00
431	2-Butene-T3	107-07-1	300.00	2.00	5.00	7.00	1.00	0.00	0.00	0.00	0.00	0.00	7.00
432	2-Butene-trans-T3	624-64-6	25000.00	0.00	5.00	5.00	1.00	0.00	6.00	2.00	2.00	0.00	7.00
433	2-Butene- <i>cis</i> -T3	590-18-1	500000.00	0.00	5.00	5.00	1.00	0.00	8.00	2.00	2.00	0.00	7.00
434	Propadiene-T3*	463-49-0	4000.00	0.00	5.00	5.00	3.00	0.00	6.00	2.00	2.00	0.00	7.00
435	Vinyldiene fluoride-T3*	75-38-7	12500.00	0.00	5.00	5.00	2.00	0.00	8.00	2.00	2.00	0.00	7.00
436	Tetrafluoroethylene-E3*	116-14-3	10000.00	0.00	5.00	5.00	3.00	0.00	6.00	2.00	2.00	0.00	7.00
437	Aldicarb *#	116-06-3	12.87	3.00	1.00	4.00	4.00	0.00	6.00	2.00	2.00	0.50	6.50
438	Antimony oxide-T3	1309-64-4	6.43	4.00	1.00	5.00	2.00	0.00	4.00	1.00	1.00	0.50	6.50
439	Crag (r) herbicide #(T3)	136-78-7	39.55	3.00	1.00	4.00	0.00	0.00	0.00	0.00	0.00	2.50	6.50
440	Cyanide	57-12-5	25.00	3.00	2.50	5.50	1.00	0.00	1.00	1.00	1.00	0.00	6.50
441	Pirimicarb #(T3 as carbamate ester)	5947-99-9	1.63	4.00	1.00	5.00	1.00	0.00	1.00	1.00	1.00	0.50	6.50
442	Thallium #(T3)	7440-28-0	1.77	4.00	1.00	5.00	5.00	0.00	5.00	1.00	1.00	0.50	6.50
443	Chlorobromomethane #(T3)	74-97-5	2000.00	1.00	2.50	3.50	7.00	0.00	11.00	3.00	3.00	0.00	6.50
444	Methyl chlorotorm	71-55-6	4200.00	0.00	2.50	2.50	14.00	1.00	20.00	3.00	4.00	0.00	6.50
445	Tetramethylenedisulfotetramine #(T3 as triethylselenite)	126-33-0	150.00	2.00	2.50	4.50	5.00	0.00	10.00	2.00	2.00	0.00	6.50
446	Xylylene-T3	1300-73-8	50.00	3.00	2.50	5.50	4.00	0.00	4.00	1.00	1.00	0.00	6.50
447	Arsenic trichloride-T3	7784-34-1	12.50	3.00	2.50	5.50	1.00	0.00	5.00	1.00	1.00	0.00	6.50
448	1,2-dimethylimidazole LD50	1739-84-0	417.00	2.00	1.00	3.00	5.00	0.00	11.00	3.00	3.00	0.50	6.50
449	5-Methyl-1-heptanone #(I)	541-85-5	100.00	3.00	2.50	5.50	2.00	0.00	3.00	1.00	1.00	0.00	6.50
450	Chlordane *#(T3)	57-74-9	5.97	4.00	2.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	6.50
451	Mercury oxycyanide as Hg	1335-31-5	1.08	4.00	1.00	5.00	2.00	0.00	2.00	1.00	1.00	0.50	6.50
452	tert-Butyl chromate #(I)	1189-85-1	1.59	4.00	2.50	6.50	0.00	0.00	0.00	0.00	0.00	0.00	6.50
453	Trypan blue #(T3)	72-57-1	14.02	3.00	1.00	4.00	6.00	0.00	10.00	2.00	2.00	0.50	6.50
454	Butyltrichlorosilane SC	7521-80-4	33.00	3.00	2.50	5.50	2.00	0.00	4.00	1.00	1.00	0.00	6.50
455	Oktyltrichlorosilane-A3* (60min)	5283-66-9	33.00	3.00	2.50	5.50	3.00	0.00	5.00	1.00	1.00	0.00	6.50
456	2-Pentanone-T3	107-87-9	1500.00	1.00	2.50	3.50	8.00	0.00	13.00	3.00	3.00	0.00	6.50
457	Cyclohexene-T3	110-83-8	2000.00	1.00	2.50	3.50	9.00	0.00	14.00	3.00	3.00	0.00	6.50
458	Ethyl formate #(I)	109-94-4	1500.00	1.00	2.50	3.50	6.00	0.00	16.00	3.00	3.00	0.00	6.50
459	Glycidol #(I)	556-52-5	150.00	2.00	2.50	4.50	4.00	0.00	6.00	2.00	2.00	0.00	6.50
460	Methyl acetate #(I)	3100.00	0.00	2.50	2.50	15.00	1.00	33.00	3.00	4.00	0.00	6.50	
461	Methylcyclohexane-T3	108-87-2	1200.00	1.00	2.50	3.50	9.00	0.00	17.00	3.00	3.00	0.00	6.50
462	n-Butyl mercaptan #(T3)	109-79-5	500.00	2.00	2.50	4.50	4.00	0.00	6.00	2.00	2.00	0.00	6.50
463	Turpentine-T3	8006-64-2	800.00	2.00	2.50	4.50	6.00	0.00	9.00	2.00	2.00	0.00	6.50
464	Isobutyronitrile-E3*	78-82-0	200.00	2.00	2.50	4.50	3.00	0.00	6.00	2.00	2.00	0.00	6.50
465	Methyl thiocyanate-T3*	1556-64-9	28.40	3.00	2.50	5.50	1.00	0.00	2.00	1.00	1.00	0.00	6.50
466	Dodecyltrichlorosilane SC	4484-72-41	33.00	3.00	2.50	5.50	1.00	0.00	3.00	1.00	1.00	0.00	6.50
467	Bromine pentafluoride-T:	7789-30-2	35.00	3.00	2.50	5.50	1.00	0.00	3.00	1.00	1.00	0.00	6.50
468	Bromine trifluoride-T3	7787-71-5	89.30	3.00	2.50	5.50	2.00	0.00	2.00	1.00	1.00	0.00	6.50
469	beta-Chloroprene #(T3)	126-99-8	300.00	2.00	2.50	4.50	4.00	0.00	6.00	2.00	2.00	0.00	6.50
470	Ethylene glycol dinitrate #(I)	628-96-6	12.06	3.00	2.50	5.50	3.00	0.00	3.00	1.00	1.00	0.00	6.50
471	Lithium #(T3)	7439-93-2	1409.20	1.00	1.00	2.00	11.00	1.00	23.00	3.00	4.00	0.50	6.50
472	Methylal #(T3)	109-87-5	2200.00	0.00	2.50	2.50	10.00	1.00	13.00	3.00	4.00	0.00	6.50
473	tert-Butyl acetate #(T3)	540-88-5	1500.00	1.00	2.50	3.50	6.00	0.00	17.00	3.00	3.00	0.00	6.50
474	Isopentene-T3	78-78-4	20000.00	0.00	2.50	2.50	17.00	1.00	29.00	3.00	4.00	0.00	6.50
475	Propyltrichlorosilane-A3* (60 min)	141-57-1	33.00	3.00	2.50	5.50	2.00	0.00	5.00	1.00	1.00	0.00	6.50
476	Hexyltrichlorosilane I:	928-65-4	33.00	3.00	2.50	5.50	2.00	0.00	3.00	1.00	1.00	0.00	6.50
477	Octadecyltrichlorosilane-A3* (60min)	112-04-9	33.00	3.00	2.50	5.50	2.00	0.00	5.00	1.00	1.00	0.00	6.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
							# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
478	2-Nitropropane #(T3)	79-46-9	100.00	3.00	2.50	5.50	2.00	0.00	4.00	1.00	1.00	0.00	6.50
479	Furan T3	110-00-9	19.00	3.00	2.50	5.50	3.00	0.00	5.00	1.00	1.00	0.00	6.50
480	Crotonaldehyde, (E)- T3	123-73-9	14.00	3.00	2.50	5.50	1.00	0.00	2.00	1.00	1.00	0.00	6.50
481	Allyltrichlorosilane, stabilized as allyl chloride	107-37-9	20.00	3.00	2.50	5.50	1.00	0.00	3.00	1.00	1.00	0.00	6.50
482	Methacrylonitrile-T3*	126-98-7	25.00	3.00	2.50	5.50	1.00	0.00	1.00	1.00	1.00	0.00	6.50
483	1,3- pentadiene-R*B97	504-60-9	280.00	2.00	2.50	4.50	7.00	0.00	10.00	2.00	2.00	0.00	6.50
484	Nitroethane #(T3)	79-24-3	1000.00	2.00	2.50	4.50	3.00	0.00	8.00	2.00	2.00	0.00	6.50
485	Propylene Imine	75-55-8	23.00	3.00	2.50	5.50	3.00	0.00	4.00	1.00	1.00	0.00	6.50
486	Dichloromonomethane #(T3)	75-43-4	5000.00	0.00	5.00	5.00	3.00	0.00	5.00	1.00	1.00	0.00	6.00
487	Terban #(1)	14484-64-1	15.00	3.00	1.00	4.00	6.00	0.00	8.00	2.00	2.00	0.00	6.00
488	Graphite #(T3)	7782-2-5	1017.90	1.00	1.00	2.00	16.00	1.00	43.00	3.00	4.00	0.00	6.00
489	Heptachlor #(T3)	76-44-8	2.29	4.00	1.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00
490	Hexachloroethane #(T3)	67-72-1	300.00	2.00	1.00	3.00	3.00	0.00	15.00	3.00	3.00	0.00	6.00
491	Hexachlorophthalene # #(T3)	1335-87-1	0.15	5.00	1.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
492	Ammonium sulfate # #(T3)	7773-06-0	107.10	2.00	1.00	3.00	8.00	0.00	14.00	3.00	3.00	0.00	6.00
493	Dipropylene glycol methyl ether #(T3)	34590-94-8	400.00	2.00	1.00	3.00	7.00	0.00	35.00	3.00	3.00	0.00	6.00
494	Isotoluene #IDLH of halogenated ethers-general	26675-46-7	2000.00	1.00	2.50	3.50	2.00	0.00	8.00	2.00	2.00	0.50	6.00
495	Methyl Cellosolve (r) acetate #(1)	110-49-6	200.00	2.00	1.00	3.00	6.00	0.00	12.00	3.00	3.00	0.00	6.00
496	Calcium phosphide SC	1305-99-3	1.80	4.00	1.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00
497	Aluminum bromide, anhydrous as AlCl3	7727-15-3	44.84	3.00	1.00	4.00	2.00	0.00	6.00	2.00	2.00	0.00	6.00
498	Decabutane #(T3)	17702-41-9	3.00	4.00	1.00	5.00	2.00	0.00	1.00	1.00	1.00	0.00	6.00
499	Morpholine #(T3)	110-91-8	1490.00	1.00	1.00	2.00	12.00	1.00	32.00	3.00	4.00	0.00	6.00
500	Dimethylpropylene, 2,2- T2	463-82-1	50000.00	0.00	5.00	5.00	1.00	0.00	4.00	1.00	1.00	0.00	6.00
501	Cyclopropane T2	75-19-4	60000.00	0.00	5.00	5.00	1.00	0.00	3.00	1.00	1.00	0.00	6.00
502	Ammonium perchlorate T2	7790-98-9	104.05	2.00	1.00	3.00	2.00	0.00	16.00	3.00	3.00	0.00	6.00
503	Lithium nitride-T3*	26134-62-3	7.02	4.00	1.00	5.00	1.00	0.00	5.00	1.00	1.00	0.00	6.00
504	Vinyl fluoride-T3*	75-02-5	150000.00	0.00	5.00	5.00	1.00	0.00	2.00	1.00	1.00	0.00	6.00
505	Magnesium phosphide- Rentokil MSDS*	12057-74-8	2.40	4.00	1.00	5.00	2.00	0.00	5.00	1.00	1.00	0.00	6.00
506	Vinyl methyl ether-R*	107-25-5	64000.00	0.00	5.00	5.00	1.00	0.00	3.00	1.00	1.00	0.00	6.00
507	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	18810-58-7	1.38	4.00	1.00	5.00	1.00	0.00	3.00	1.00	1.00	0.00	6.00
508	Ethyl acetylene (as ethylene	107-00-6	15000.00	0.00	5.00	5.00	2.00	0.00	3.00	1.00	1.00	0.00	6.00
509	Aldrin # #(T3)	309-00-2	1.68	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50
510	DDT # #(T3)	50-29-3	34.49	3.00	1.00	4.00	2.00	0.00	3.00	1.00	1.00	0.50	5.50
511	Dieldrin # #(T3)	60-57-1	3.21	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50
512	Mercuric Salicylate #(T3 of Hg)	5970-32-1	1.08	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50
513	Toxaphene #(13 based on Keplinger 1963 study)	8001-35-2	29.53	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.50	5.50
514	Aqua Regia #T3	8007-56-5	35.01	3.00	2.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	5.50
515	Hexachlorobenzene	118-74-1	17.17	3.00	1.00	4.00	1.00	0.00	2.00	1.00	1.00	0.50	5.50
516	Mercuric arsenate #(T3 of Hg)	7784-37-4	1.08	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50
517	Pyrethrum #(1) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8003-34-7	326.87	2.00	2.50	4.50	4.00	0.00	4.00	1.00	1.00	0.00	5.50
518	Thiodigycyl-Alfa MSDS*B71	111-48-8	4150.00	0.00	2.50	2.50	9.00	0.00	12.00	3.00	3.00	0.00	5.50
519	Cyclopentadiene #()	542-92-7	750.00	2.00	2.50	4.50	2.00	0.00	2.00	1.00	1.00	0.00	5.50
520	Ethyl butyl ketone #(T3)	106-35-4	1000.00	2.00	2.50	4.50	2.00	0.00	4.00	1.00	1.00	0.00	5.50
521	Methylcyclohexanol #()	25639-42-3	500.00	2.00	2.50	4.50	1.00	0.00	1.00	1.00	1.00	0.00	5.50
522	o-Methylcyclohexanone #(T3)	583-60-8	600.00	2.00	2.50	4.50	4.00	0.00	5.00	1.00	1.00	0.00	5.50
523	sec-Amyl acetate #(T3)	626-38-0	1000.00	2.00	2.50	4.50	2.00	0.00	2.00	1.00	1.00	0.00	5.50
524	Mesityl oxide #(T3)	141-79-7	1400.00	1.00	2.50	3.50	5.00	0.00	6.00	2.00	2.00	0.00	5.50
525	Methyl formate #(T3)	107-31-3	4500.00	0.00	2.50	2.50	8.00	0.00	16.00	3.00	3.00	0.00	5.50
526	Vinyl toluene #()	25013-15-4	400.00	2.00	2.50	4.50	1.00	0.00	3.00	1.00	1.00	0.00	5.50
527	Isopropyl chloride-T3*	75-29-6	15000.00	0.00	2.50	2.50	1.00	0.00	13.00	3.00	3.00	0.00	5.50
528	Amyltrichlorosilane R	107-72-2	500.00	2.00	2.50	4.50	1.00	0.00	2.00	1.00	1.00	0.00	5.50
529	1,2-Dichloroethylene #(T3)	540-59-0	1000.00	2.00	2.50	4.50	2.00	0.00	2.00	1.00	1.00	0.00	5.50
530	1-Chloro-1-nitropropane #()	600-25-9	100.00	3.00	2.50	5.50	2.00	0.00	0.00	0.00	0.00	0.00	5.50
531	1-Nitropropane #()	108-03-2	1000.00	2.00	2.50	4.50	3.00	0.00	4.00	1.00	1.00	0.00	5.50
532	Ethyl mercaptan	75-08-1	360.00	2.00	2.50	4.50	4.00	0.00	5.00	1.00	1.00	0.00	5.50
533	Isopropyl glycidyl ether #()	4016-14-2	400.00	2.00	2.50	4.50	1.00	0.00	1.00	1.00	1.00	0.00	5.50
534	Methyl dichlorosilane-R*	75-54-7	1200.00	1.00	2.50	3.50	2.00	0.00	9.00	2.00	2.00	0.00	5.50
535	Vinyltrichlorosilane-R*	75-94-5	2000.00	1.00	2.50	3.50	3.00	0.00	8.00	2.00	2.00	0.00	5.50
536	Acetyl Iodide (as acetyl bromide) T3	507-02-8	20.00	3.00	2.50	5.50	0.00	0.00	0.00	0.00	0.00	0.00	5.50
537	Vinyl ethyl ether-T3*	109-92-2	1500.00	1.00	2.50	3.50	3.00	0.00	8.00	2.00	2.00	0.00	5.50
538	Isoprene-T3*	78-79-5	25000.00	0.00	2.50	2.50	6.00	0.00	17.00	3.00	3.00	0.00	5.50
539	Methyl acrylene #(T3)	74-99-7	1700.00	1.00	2.50	3.50	4.00	0.00	7.00	2.00	2.00	0.00	5.50
540	2,4,5-T #(T3)	93-76-5	23.92	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Physical State	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
							# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
541	ANTU * #(T3)	86-88-4	12.10	3.00	1.00	4.00	3.00	0.00	3.00	1.00	1.00	0.00	5.00
542	Bromodiolone (Rat Inh. LC50)	54149-17-6	23.20	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
543	Dimethyl 1,2-dibromo 2,2-dichloroethyl phosphite #()	300-76-5	12.83	3.00	1.00	4.00	3.00	0.00	4.00	1.00	1.00	0.00	5.00
544	Methoxychlor * #(T3)	72-43-5	35.37	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
545	Pindone * #()	83-26-1	10.62	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
546	Rotenone * #(T3)	83-79-4	30.99	3.00	1.00	4.00	2.00	0.00	2.00	1.00	1.00	0.00	5.00
547	Tetryl * #(T3)	479-45-8	42.57	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
548	Chlorinated camphene * #(T3)	8001-35-2	11.80	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
549	Terphenyls * #()	92-06-8; 84-15-1; 92-94-4	53.08	3.00	1.00	4.00	4.00	0.00	5.00	1.00	1.00	0.00	5.00
550	Tetramethyl succinonitrile #()	3333-52-6	5.00	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
551	Trinitrochlorobenzene-T3*	88-88-0	24.69	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
552	Ammonium Picrate T3	131-74-8	24.83	3.00	1.00	4.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
553	HMX T3	2691-41-0	41.28	3.00	1.00	4.00	1.00	0.00	2.00	1.00	1.00	0.00	5.00
554	Dinitrophenol, Dry or wet T3	25550-58-7 (51-28-5)	3.32	4.00	1.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
555	Azinphos-ethyl *T3	2642-71-9	10.63	3.00	1.00	4.00	0.00	0.00	0.00	0.00	0.00	0.50	4.50
556	Difluorodibromomethane #(I)	75-61-6	2000.00	1.00	2.50	3.50	2.00	0.00	3.00	1.00	1.00	0.00	4.50
557	sec-Heptyl acetate #(I)	108-84-9	500.00	2.00	2.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	4.50
558	2-Hexanone #(T3)	591-78-6	1600.00	1.00	2.50	3.50	2.00	0.00	3.00	1.00	1.00	0.00	4.50
559	sec-Butyl acetate #(T3)	105-46-4	1500.00	1.00	2.50	3.50	2.00	0.00	2.00	1.00	1.00	0.00	4.50
560	2-Chloropropylene T;	557-98-2	35000.00	0.00	2.50	2.50	1.00	0.00	6.00	2.00	2.00	0.00	4.50
561	Ronnel #()	299-84-3	22.81	3.00	1.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
562	Comline (R-2-ethylpiperidine) #(T3 as piperidine)	22160-08-3	110.00	2.00	1.00	3.00	0.00	0.00	0.00	0.00	0.00	0.50	3.50
563	Methoxyflurane #(IDLH of halogenated ethers-general)	76-38-0	2000.00	1.00	1.00	2.00	1.00	0.00	3.00	1.00	1.00	0.50	3.50
564	1,1-Dichloroethane #(T3)	75-34-3	3000.00	0.00	2.50	2.50	3.00	0.00	3.00	1.00	1.00	0.00	3.50
565	1-Chloropropylene F	590-21-6	8000.00	0.00	2.50	2.50	2.00	0.00	2.00	1.00	1.00	0.00	3.50
566	1-pentene-T3*	109-67-1	30000.00	0.00	2.50	2.50	3.00	0.00	5.00	1.00	1.00	0.00	3.50
567	2-Methyl-1-butene-T3*	563-46-2	500000.00	0.00	2.50	2.50	1.00	0.00	4.00	1.00	1.00	0.00	3.50
568	Diethyl dichlorosilane F	1719-53-5	4668.58	0.00	2.50	2.50	1.00	0.00	2.00	1.00	1.00	0.00	3.50
569	n-Propyl nitrate #(T3)	627-13-4	1160.00	1.00	2.50	3.50	0.00	0.00	0.00	0.00	0.00	0.00	3.50
570	Vinyl acetylene-R*	689-97-4	105000.00	0.00	2.50	2.50	1.00	0.00	1.00	1.00	1.00	0.00	3.50



Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
1	Chlorine	7782-50-5	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
2	Sulfuric acid	7664-93-9	7.47	4.00	2.00	2.50	0.00	5.00	3.75	2.50
3	Calcium Carbonate #(T3)	471-34-1	3.66	4.00	0.00	5.00	0.00	5.00	5.00	1.00
4	Ammonia	7664-41-7	1100.00	1.00	0.00	5.00	1.00	3.75	4.38	5.00
5	Hydrogen chloride	7647-01-0	100.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
6	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	25.00	3.00	0.00	5.00	2.00	2.50	3.75	5.00
7	Hydrogen fluoride	7664-39-3	44.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
8	Mercury	7439-97-6	1.08	4.00	0.00	5.00	0.00	5.00	5.00	2.50
9	Phosgene	75-44-5	0.75	5.00	1.00	3.75	0.00	5.00	4.38	5.00
10	Calcium chloride	10043-52-4	88.19	3.00	0.00	5.00	0.00	5.00	5.00	1.00
11	Copper sulfate #(T3)	7758-98-7	3.92	4.00	0.00	5.00	0.00	5.00	5.00	1.00
12	Nitric acid	7697-37-2	92.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
13	Arsenic Trioxide	1327-53-3	1.12	4.00	0.00	5.00	0.00	5.00	5.00	1.00
14	Sodium Sulfate #(T3)	7757-82-6	21.52	3.00	0.00	5.00	0.00	5.00	5.00	1.00
15	Sulfur dioxide	7446-09-5	30.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
16	OMPA	152-16-9	0.30	5.00	0.00	5.00	0.00	5.00	5.00	2.50
17	Sodium hydroxide #(E3)	1310-73-2	30.56	3.00	1.00	3.75	0.00	5.00	4.38	1.00
18	Di-basic sodium phosphate	10039-32-4	25.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
19	Chlorpyrifos #(T3)	2921-88-2	5.23	4.00	0.00	5.00	0.00	5.00	5.00	1.00
20	Ammonium Chloride	12125-02-9	228.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00
21	Lindane * #(T3)	58-89-9	4.20	4.00	0.00	5.00	0.00	5.00	5.00	1.00
22	Selenium hexafluoride	7783-79-1	0.26	5.00	0.00	5.00	0.00	5.00	5.00	5.00
23	Potassium dichromate #(T3)	7778-50-9	3.32	4.00	1.00	3.75	0.00	5.00	4.38	1.00
24	Phosphoryl Trichloride	10025-87-3	0.85	5.00	2.00	2.50	0.00	5.00	3.75	2.50
25	Silica #(T3)	7631-86-9	203.72	2.00	0.00	5.00	0.00	5.00	5.00	1.00
26	Sodium bicarbonate #(T3)	144-55-8	145.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
27	Sodium cyanide #(T3)	143-33-9	19.96	3.00	0.00	5.00	0.00	5.00	5.00	1.00
28	Potassium ferrocyanide #(T3)	13943-58-3	3.42	4.00	0.00	5.00	0.00	5.00	5.00	1.00
29	Kerosene #(T3)	8008-20-6	57.53	3.00	0.00	5.00	2.00	2.50	3.75	2.50
30	Sodium Nitrate #(T3)	7631-99-4	28.77	3.00	2.00	2.50	0.00	5.00	3.75	1.00
31	Hydrogen peroxide #(E3)	7722-84-1	100.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
32	Gypsum #(T3 as K ₂ CO ₃)	13397-24-5	88.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
33	Methomyl	16752-77-5	30.13	3.00	0.00	5.00	0.00	5.00	5.00	1.00
34	Nitric oxide #(I)	10102-43-9	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
35	Chloroacetyl chloride E3	79-04-9	10.00	4.00	1.00	3.75	3.00	1.25	2.50	2.50
36	Calcium Hydroxide #(T3)	1305-62-0	165.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00
37	Diethylene glycol	111-46-6	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.00
38	Silver nitrate #(T3)	7761-88-8	2.17	4.00	1.00	3.75	0.00	5.00	4.38	1.00
39	Acetic acid #(T3)	64-19-7	250.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
40	Aniline	62-53-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
41	Toluene-2,4-diisocyanate	584-84-9	0.51	5.00	2.00	2.50	1.00	3.75	3.13	2.50
42	Magnesium Oxide #(T3)	1309-48-4	303.35	2.00	0.00	5.00	0.00	5.00	5.00	1.00
43	Sodium dodecyl sulfate #(T3)	151-21-3	42.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
44	Zinc	7440-66-6	74.79	3.00	0.00	5.00	0.00	5.00	5.00	1.00
45	Bromine	7726-95-6	8.50	4.00	0.00	5.00	0.00	5.00	5.00	2.50
46	Carbendazim	10605-21-7	3.25	4.00	0.00	5.00	0.00	5.00	5.00	1.00
47	Chlorine dioxide	10049-04-4	2.40	4.00	4.00	0.00	0.00	5.00	2.50	5.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
1	Chlorine	16.00	63.00	5.00	344.00	5.00	10.00	5.00	31.00
2	Sulfuric acid	14.25	66.00	5.00	544.00	5.00	10.00	2.50	26.75
3	Calcium Carbonate #(T3)	14.00	52.00	5.00	309.00	5.00	10.00	2.50	26.50
4	Ammonia	11.38	56.00	5.00	348.00	5.00	10.00	5.00	26.38
5	Hydrogen chloride	15.38	63.00	5.00	528.00	5.00	10.00	0.50	25.88
6	Formaldehyde (Formalin solution-37% methanol) E3	14.75	53.00	5.00	260.00	5.00	10.00	0.50	25.25
7	Hydrogen fluoride	15.38	25.00	2.00	138.00	5.00	7.00	2.50	24.88
8	Mercury	15.50	14.00	1.00	24.00	3.00	4.00	5.00	24.50
9	Phosgene	19.38	10.00	1.00	22.00	3.00	4.00	0.50	23.88
10	Calcium chloride	12.00	43.00	4.00	208.00	5.00	9.00	2.50	23.50
11	Copper sulfate #(T3)	14.00	29.00	2.00	188.00	5.00	7.00	2.50	23.50
12	Nitric acid	13.50	49.00	4.00	226.00	5.00	9.00	0.50	23.00
13	Arsenic Trioxide	14.00	10.00	1.00	18.00	3.00	4.00	5.00	23.00
14	Sodium Sulfate #(T3)	12.00	36.00	3.00	200.00	5.00	8.00	2.50	22.50
15	Sulfur dioxide	16.00	27.00	2.00	79.00	4.00	6.00	0.00	22.00
16	OMPA	17.50	11.00	1.00	22.00	3.00	4.00	0.50	22.00
17	Sodium hydroxide #(E3)	11.38	64.00	5.00	477.00	5.00	10.00	0.50	21.88
18	Dibasic sodium phosphate	12.00	22.00	2.00	125.00	5.00	7.00	2.50	21.50
19	Chlorpyrifos #(T3)	14.00	17.00	1.00	71.00	4.00	5.00	2.50	21.50
20	Ammonium Chloride	9.38	25.00	2.00	141.00	5.00	7.00	5.00	21.38
21	Lindane * #(T3)	14.00	3.00	0.00	9.00	2.00	2.00	5.00	21.00
22	Selenium hexafluoride	20.00	2.00	0.00	2.00	1.00	1.00	0.00	21.00
23	Potassium dichromate #(T3)	13.38	17.00	1.00	69.00	4.00	5.00	2.50	20.88
24	Phosphoryl Trichloride	16.25	14.00	1.00	50.00	3.00	4.00	0.50	20.75
25	Silica #(T3)	10.00	30.00	3.00	131.00	5.00	8.00	2.50	20.50
26	Sodium bicarbonate #(T3)	10.00	30.00	3.00	138.00	5.00	8.00	2.50	20.50
27	Sodium cyanide #(T3)	12.00	21.00	2.00	52.00	4.00	6.00	2.50	20.50
28	Potassium ferrocyanide #(T3)	14.00	12.00	1.00	38.00	3.00	4.00	2.50	20.50
29	Kerosene #(T3)	12.25	35.00	3.00	102.00	5.00	8.00	0.00	20.25
30	Sodium Nitrate #(T3)	10.75	23.00	2.00	124.00	5.00	7.00	2.50	20.25
31	Hydrogen peroxide #(E3)	11.63	38.00	3.00	172.00	5.00	8.00	0.50	20.13
32	Gypsum #(T3 as K ₂ CO ₃)	12.00	36.00	3.00	127.00	5.00	8.00	0.00	20.00
33	Methomyl	12.00	9.00	0.00	46.00	3.00	3.00	5.00	20.00
34	Nitric oxide #(I)	16.00	11.00	1.00	12.00	3.00	4.00	0.00	20.00
35	Chloroacetyl chloride E3	13.00	25.00	2.00	179.00	5.00	7.00	0.00	20.00
36	Calcium Hydroxide #(T3)	9.38	38.00	3.00	144.00	5.00	8.00	2.50	19.88
37	Diethylene glycol	12.38	30.00	3.00	94.00	4.00	7.00	0.50	19.88
38	Silver nitrate #(T3)	13.38	22.00	2.00	80.00	4.00	6.00	0.50	19.88
39	Acetic acid #(T3)	10.25	40.00	4.00	186.00	5.00	9.00	0.50	19.75
40	Aniline	12.25	16.00	1.00	64.00	4.00	5.00	2.50	19.75
41	Toluene-2,4-diisocyanate	15.63	12.00	1.00	20.00	3.00	4.00	0.00	19.63
42	Magnesium Oxide #(T3)	10.00	28.00	2.00	134.00	5.00	7.00	2.50	19.50
43	Sodium dodecyl sulfate #(T3)	12.00	27.00	2.00	104.00	5.00	7.00	0.50	19.50
44	Zinc	12.00	31.00	3.00	90.00	4.00	7.00	0.50	19.50
45	Bromine	15.50	12.00	1.00	50.00	3.00	4.00	0.00	19.50
46	Carbendazim	14.00	16.00	1.00	62.00	4.00	5.00	0.50	19.50
47	Chlorine dioxide	15.50	14.00	1.00	33.00	3.00	4.00	0.00	19.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
48	Cyanogen Chloride	460-19-5	10.00	4.00	0.00	5.00	0.00	5.00	5.00	5.00
49	Iodine #(E3)	7553-56-2	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
50	Mercuric chloride #(T3 of Hg)	7487-94-7	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
51	Oleum-E3*	8014-95-7	4.12	4.00	0.00	5.00	0.00	5.00	5.00	2.50
52	Strychnine Sulfate #(T3)	60-41-3	0.29	5.00	0.00	5.00	0.00	5.00	5.00	1.00
53	Boron trifluoride *	7637-07-2	39.66	3.00	1.00	3.75	0.00	5.00	4.38	5.00
54	Sodium chloride	7775-09-9	17.22	3.00	2.00	2.50	0.00	5.00	3.75	1.00
55	Phosphorus trichloride	7719-12-2	5.60	4.00	2.00	2.50	0.00	5.00	3.75	2.50
56	Benomyl	17804-35-2	0.84	5.00	1.00	3.75	1.00	3.75	3.75	1.00
57	Parathion *	56-38-2	0.17	5.00	2.00	2.50	1.00	3.75	3.13	2.50
58	Hydrogen bromide	10035-10-6	120.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
59	Phosphoric acid *#(T3)	7664-38-2	124.70	2.00	0.00	5.00	0.00	5.00	5.00	1.00
60	Phosphamidon #(T3)	13171-21-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
61	Diethyl phthalate *#(T3)	84-74-2	43.90	3.00	0.00	5.00	1.00	3.75	4.38	2.50
62	Potassium Hydroxide #(T3)	1310-58-3	65.36	3.00	1.00	3.75	0.00	5.00	4.38	1.00
63	Acetophenone	30560-19-1	5.00	4.00	0.00	5.00	1.00	3.75	4.38	1.00
64	Barium nitrate *T3	10022-31-8	7.02	4.00	1.00	3.75	0.00	5.00	4.38	1.00
65	Imidacloprid #(E3)	105827-78-9	2.03	4.00	0.00	5.00	1.00	3.75	4.38	1.00
66	Hydrogen cyanide	74-90-8	15.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
67	Sulfur tetrafluoride-T3*	7783-60-0	2.08	4.00	2.00	2.50	0.00	5.00	3.75	5.00
68	Arsine	7784-42-1	0.50	5.00	2.00	2.50	4.00	0.00	1.25	5.00
69	Periodic acid	10450-60-9	0.54	5.00	3.00	1.25	0.00	5.00	3.13	1.00
70	Sodium chloride #(T3)	7647-14-5	209.19	2.00	0.00	5.00	0.00	5.00	5.00	1.00
71	Cobalt dichloride #(T3)	7646-79-9	51.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
72	Lead Oxide #(T3)	1309-60-0	10.22	3.00	0.00	5.00	0.00	5.00	5.00	1.00
73	Nitrogen dioxide	10102-44-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
74	Potassium cyanide #(T3)	151-50-8	22.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
75	Potassium orthophosphate #T3 based on strontium orthophosphate)	7778-53-2	89.84	3.00	0.00	5.00	0.00	5.00	5.00	1.00
76	Cadmium	7440-43-9	1.96	4.00	0.00	5.00	0.00	5.00	5.00	1.00
77	Dimethoate #(T3)	60-51-5	3.19	4.00	0.00	5.00	0.00	5.00	5.00	1.00
78	Endosulfan	115-29-7	2.10	4.00	0.00	5.00	0.00	5.00	5.00	1.00
79	Red mercuric oxide	21908-53-2	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
80	Phosdrin * #(T3) (Mevinphos)	7786-34-7	0.44	5.00	0.00	5.00	0.00	5.00	5.00	2.50
81	TEPP * #(T3)	3689-24-5	0.76	5.00	0.00	5.00	0.00	5.00	5.00	2.50
82	Dichlorvos	62-73-7	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
83	Iron oxide #(T3)	1309-37-1	76.55	3.00	0.00	5.00	1.00	3.75	4.38	1.00
84	Tetrafluoroboric acid #(T3)	16872-11-0	11.14	3.00	1.00	3.75	0.00	5.00	4.38	2.50
85	Phenyl etherbiphenyl mixture (vapor) #(I)	8004-13-5	10.00	4.00	0.00	5.00	1.00	3.75	4.38	5.00
86	Nitrosyl chloride-T3*	2696-92-6	2.50	4.00	1.00	3.75	0.00	5.00	4.38	5.00
87	TEPP * #(T3)	107-49-3	0.42	5.00	1.00	3.75	0.00	5.00	4.38	2.50
88	Ethanolamine #(T3)	141-43-5	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
89	Formic acid #(T3)	64-18-6	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
90	Boron trichloride T3	10294-34-5	2.50	4.00	2.00	2.50	4.00	0.00	1.25	5.00
91	Dicofol #(T3)	115-32-2	0.50	5.00	1.00	3.75	1.00	3.75	3.75	1.00
92	Ammonium nitrate, no organic coating T3	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
48	Cyanogen Chloride	18.00	2.00	0.00	3.00	1.00	1.00	0.50	19.50
49	Iodine #(E3)	14.00	19.00	1.00	80.00	4.00	5.00	0.50	19.50
50	Mercuric chloride #(T3 of Hg)	14.00	9.00	0.00	21.00	3.00	3.00	2.50	19.50
51	Oleum-E3*	15.50	9.00	0.00	81.00	4.00	4.00	0.00	19.50
52	Strychnine Sulfate #(T3)	16.00	1.00	0.00	3.00	1.00	1.00	2.50	19.50
53	Boron trifluoride *	15.38	11.00	1.00	28.00	3.00	4.00	0.00	19.38
54	Sodium chlorate	10.75	20.00	2.00	59.00	4.00	6.00	2.50	19.25
55	Phosphorus trichloride	14.25	11.00	1.00	57.00	4.00	5.00	0.00	19.25
56	Benomyl	14.75	10.00	1.00	23.00	3.00	4.00	0.50	19.25
57	Parathion *	15.63	3.00	0.00	11.00	3.00	3.00	0.50	19.13
58	Hydrogen bromide	14.00	16.00	1.00	73.00	4.00	5.00	0.00	19.00
59	Phosphoric acid *#(T3)	10.00	49.00	4.00	245.00	5.00	9.00	0.00	19.00
60	Phosphamidon #(T3)	17.50	3.00	0.00	4.00	1.00	1.00	0.50	19.00
61	Diethyl phthalate *#(T3)	12.88	27.00	2.00	88.00	4.00	6.00	0.00	18.88
62	Potassium Hydroxide #(T3)	11.38	24.00	2.00	107.00	5.00	7.00	0.50	18.88
63	Acetophenone	13.38	9.00	0.00	49.00	3.00	3.00	2.50	18.88
64	Barium nitrate *T3	13.38	15.00	1.00	72.00	4.00	5.00	0.50	18.88
65	Imidacloprid #(E3)	13.38	10.00	1.00	75.00	4.00	5.00	0.50	18.88
66	Hydrogen cyanide	9.75	13.00	1.00	25.00	3.00	4.00	5.00	18.75
67	Sulfur tetrafluoride-T3*	16.75	2.00	0.00	6.00	2.00	2.00	0.00	18.75
68	Arsine	16.25	8.00	0.00	10.00	2.00	2.00	0.50	18.75
69	Periodic acid	14.13	10.00	1.00	21.00	3.00	4.00	0.50	18.63
70	Sodium chloride #(T3)	10.00	38.00	3.00	175.00	5.00	8.00	0.50	18.50
71	Cobalt dichloride #(T3)	12.00	22.00	2.00	90.00	4.00	6.00	0.50	18.50
72	Lead Oxide #(T3)	12.00	10.00	1.00	20.00	3.00	4.00	2.50	18.50
73	Nitrogen dioxide	16.00	7.00	0.00	9.00	2.00	2.00	0.50	18.50
74	Potassium cyanide #(T3)	12.00	14.00	1.00	23.00	3.00	4.00	2.50	18.50
75	Potassium orthophosphate #T3 based on strontium orthophosphate)	12.00	11.00	1.00	33.00	3.00	4.00	2.50	18.50
76	Cadmium	14.00	19.00	1.00	37.00	3.00	4.00	0.50	18.50
77	Dimethoate #(T3)	14.00	11.00	1.00	39.00	3.00	4.00	0.50	18.50
78	Endosulfan	14.00	11.00	1.00	32.00	3.00	4.00	0.50	18.50
79	Red mercuric oxide	14.00	11.00	1.00	26.00	3.00	4.00	0.50	18.50
80	Phosdrin * #(T3) (Mevinphos)	17.50	4.00	0.00	5.00	1.00	1.00	0.00	18.50
81	TEDP * #(T3)	17.50	1.00	0.00	1.00	1.00	1.00	0.00	18.50
82	Dichlorvos	12.88	12.00	1.00	52.00	4.00	5.00	0.50	18.38
83	Iron oxide #(T3)	11.38	27.00	2.00	141.00	5.00	7.00	0.00	18.38
84	Tetrafluoroboric acid #(T3)	12.88	17.00	1.00	60.00	4.00	5.00	0.50	18.38
85	Phenyl etherbiphenyl mixture (vapor) #(I)	17.38	3.00	0.00	3.00	1.00	1.00	0.00	18.38
86	Nitrosyl chloride-T3*	17.38	1.00	0.00	1.00	1.00	1.00	0.00	18.38
87	TEPP * #(T3)	16.88	1.00	0.00	1.00	1.00	1.00	0.50	18.38
88	Ethanolamine #(T3)	12.25	20.00	2.00	72.00	4.00	6.00	0.00	18.25
89	Formic acid #(T3)	12.25	26.00	2.00	84.00	4.00	6.00	0.00	18.25
90	Boron trichloride T3	14.25	16.00	1.00	13.00	3.00	4.00	0.00	18.25
91	Dicofol #(T3)	14.75	8.00	0.00	18.00	3.00	3.00	0.50	18.25
92	Ammonium nitrate, no organic coating T3	8.13	52.00	5.00	182.00	5.00	10.00	0.00	18.13

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
93	Ammonium nitrate, with organic coating	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00
94	Chlorine trifluoride E3	7790-91-2	10.00	4.00	3.00	1.25	0.00	5.00	3.13	5.00
95	Hydrogen sulfide	7783-06-4	50.00	3.00	0.00	5.00	4.00	0.00	2.50	5.00
96	Molybdophosphoric acid	51429-74-4	37.05	3.00	0.00	5.00	0.00	5.00	5.00	2.50
97	Demeton * #(T3) (Systox)	8065-48-3	0.95	5.00	0.00	5.00	0.00	5.00	5.00	2.50
98	Pentachlorophenol * #(T3)	87-86-5	0.23	5.00	0.00	5.00	0.00	5.00	5.00	1.00
99	Methyl bromide	74-83-9	740.00	2.00	0.00	5.00	1.00	3.75	4.38	5.00
100	Lead nitrate	10099-74-8	11.07	3.00	1.00	3.75	0.00	5.00	4.38	1.00
101	Acetylene tetrabromide #(T3)	79-27-6	8.00	4.00	1.00	3.75	0.00	5.00	4.38	2.50
102	Atrazine *#T3	1912-24-9	1.50	4.00	0.00	5.00	1.00	3.75	4.38	1.00
103	o-Anisidine * #(T3)	90-04-0	9.93	4.00	0.00	5.00	1.00	3.75	4.38	2.50
104	Azinphosmethyl * #(T3)	86-50-0	0.77	5.00	0.00	5.00	1.00	3.75	4.38	1.00
105	Tungsten hexafluoride-T3*	7783-82-6	32.84	3.00	2.00	2.50	0.00	5.00	3.75	5.00
106	Hexafluoroacetone E3	684-16-2	50.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
107	Silicon tetrafluoride-T3*	7783-61-1	100.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
108	Phosphine	7803-51-2	3.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
109	Dimethyl sulfate	77-78-1	1.60	4.00	1.00	3.75	2.00	2.50	3.13	2.50
110	Isobutane-T3*	75-28-5	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
111	Hydrogen T3	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
112	Copper oxychloride #(E3)	1332-40-7	100.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
113	Fluorine	7782-41-4	13.00	3.00	4.00	0.00	0.00	5.00	2.50	5.00
114	Malathion * #(T3)	121-75-5	18.50	3.00	0.00	5.00	0.00	5.00	5.00	2.50
115	Sodium fluoride #(T3)	7681-49-4	43.76	3.00	0.00	5.00	0.00	5.00	5.00	1.00
116	Arsenic *#T3	7440-38-2	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
117	Metalaxyl #(T3 of parent dixylyl methyl carbamate)	57837-19-1	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
118	Sodium fluoroacetate #(T3)	62-74-8	0.61	5.00	0.00	5.00	0.00	5.00	5.00	1.00
119	Sulfur pentafluoride #(T3)	5714-22-7	1.00	5.00	0.00	5.00	0.00	5.00	5.00	2.50
120	Trithion	786-19-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
121	Phosphorus	7723-14-0	3.16	4.00	1.00	3.75	1.00	3.75	3.75	1.00
122	Chlorosulfonic acid E3	7790-94-5	6.29	4.00	0.00	5.00	2.00	2.50	3.75	2.50
123	Boron tribromide T3	10294-33-4	5.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50
124	Thionyl chloride-E3*	7719-09-715	10.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50
125	Perchloromethyl mercaptan	594-42-3	0.90	5.00	2.00	2.50	0.00	5.00	3.75	2.50
126	Nitrobenzene *#T3	98-95-3	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
127	p-Phenylenediamine * #(T3)	106-50-3	5.70	4.00	1.00	3.75	2.00	2.50	3.13	1.00
128	Cypermethrin #1 as in pyrethrum)	52315-07-8	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
129	Sulfuryl fluoride	2699-79-8	64.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
130	Thiram * #(T3)	137-26-8	10.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00
131	2-Aminopyridine #(I)	504-29-0	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
132	Dinitrobenzene* (o, m, p isomers) * #(T3)	528-29-0; 99-65-0; 100-25-4	7.27	4.00	0.00	5.00	0.00	5.00	5.00	1.00
133	p-Anisidine * #(T3)	104-94-9	9.93	4.00	0.00	5.00	0.00	5.00	5.00	1.00
134	Warfarin * #(T3)	81-81-2	1.60	4.00	0.00	5.00	0.00	5.00	5.00	1.00
135	2-chlorobenzoyl Chloride	609-65-4	1.00	5.00	2.00	2.50	2.00	2.50	2.50	1.00
136	Difethialone (T3 based on warfarin)	104653-34-1	0.67	5.00	0.00	5.00	0.00	5.00	5.00	1.00
137	Dinitrocresol * #(T3)	534-52-1	0.62	5.00	0.00	5.00	0.00	5.00	5.00	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
93	Ammonium nitrate, with organic coating	8.13	52.00	5.00	182.00	5.00	10.00	0.00	18.13
94	Chlorine trifluoride E3	16.13	4.00	0.00	8.00	2.00	2.00	0.00	18.13
95	Hydrogen sulfide	13.50	15.00	1.00	24.00	3.00	4.00	0.50	18.00
96	Molybdochosphoric acid	13.50	10.00	1.00	22.00	3.00	4.00	0.50	18.00
97	Demeton * #(T3) (Systox)	17.50	0.00	0.00	0.00	0.00	0.00	0.50	18.00
98	Pentachlorophenol * #(T3)	16.00	4.00	0.00	7.00	2.00	2.00	0.00	18.00
99	Methyl bromide	13.38	10.00	1.00	17.00	3.00	4.00	0.50	17.88
100	Lead nitrate	11.38	16.00	1.00	49.00	3.00	4.00	2.50	17.88
101	Acetylene tetrabromide #(T3)	14.88	6.00	0.00	11.00	3.00	3.00	0.00	17.88
102	Atrazine *#T3	13.38	10.00	1.00	23.00	3.00	4.00	0.50	17.88
103	o-Anisidine * #(T3)	14.88	5.00	0.00	24.00	3.00	3.00	0.00	17.88
104	Azinphosmethyl * #(T3)	15.38	5.00	0.00	7.00	2.00	2.00	0.50	17.88
105	Tungsten hexafluoride-T3*	14.75	8.00	0.00	17.00	3.00	3.00	0.00	17.75
106	Hexafluoroacetone E3	14.75	6.00	0.00	18.00	3.00	3.00	0.00	17.75
107	Silicon tetrafluoride-T3*	14.75	9.00	0.00	15.00	3.00	3.00	0.00	17.75
108	Phosphine	14.25	9.00	0.00	13.00	3.00	3.00	0.50	17.75
109	Dimethyl sulfate	13.63	12.00	1.00	39.00	3.00	4.00	0.00	17.63
110	Isobutane-T3*	7.50	68.00	5.00	409.00	5.00	10.00	0.00	17.50
111	Hydrogen T3	7.50	70.00	5.00	340.00	5.00	10.00	0.00	17.50
112	Copper oxychloride #(E3)	12.00	21.00	2.00	41.00	3.00	5.00	0.50	17.50
113	Fluorine	13.50	10.00	1.00	17.00	3.00	4.00	0.00	17.50
114	Malathion * #(T3)	13.50	11.00	1.00	33.00	3.00	4.00	0.00	17.50
115	Sodium fluoride #(T3)	12.00	16.00	1.00	85.00	4.00	5.00	0.50	17.50
116	Arsenic *#T3	14.00	6.00	0.00	11.00	3.00	3.00	0.50	17.50
117	Metalaxyl #(T3 of parent dixylyl methyl carbamate)	14.00	8.00	0.00	25.00	3.00	3.00	0.50	17.50
118	Sodium fluoroacetate #(T3)	16.00	3.00	0.00	3.00	1.00	1.00	0.50	17.50
119	Sulfur pentafluoride #(T3)	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50
120	Trithion	17.50	0.00	0.00	0.00	0.00	0.00	0.00	17.50
121	Phosphorus	12.75	11.00	1.00	49.00	3.00	4.00	0.50	17.25
122	Chlorosulfonic acid E3	14.25	6.00	0.00	38.00	3.00	3.00	0.00	17.25
123	Boron tribromide T3	14.25	3.00	0.00	12.00	3.00	3.00	0.00	17.25
124	Thionyl chloride-E3*	14.25		0.00	23.00	3.00	3.00	0.00	17.25
125	Perchloromethyl mercaptan	16.25	3.00	0.00	5.00	1.00	1.00	0.00	17.25
126	Nitrobenzene *#T3	9.63	12.00	1.00	55.00	4.00	5.00	2.50	17.13
127	p-Phenylenediamine * #(T3)	12.13	12.00	1.00	52.00	4.00	5.00	0.00	17.13
128	Cypermethrin #1 as in pyrethrum)	11.50	15.00	1.00	89.00	4.00	5.00	0.50	17.00
129	Sulfuryl fluoride	16.00	4.00	0.00	5.00	1.00	1.00	0.00	17.00
130	Thiram * #(T3)	12.00	17.00	1.00	72.00	4.00	5.00	0.00	17.00
131	2-Aminopyridine #(I)	14.00	6.00	0.00	20.00	3.00	3.00	0.00	17.00
132	Dinitrobenzene* (o, m, p isomers) * #(T3)	14.00	6.00	0.00	15.00	3.00	3.00	0.00	17.00
133	p-Anisidine * #(T3)	14.00	5.00	0.00	19.00	3.00	3.00	0.00	17.00
134	Warfarin * #(T3)	14.00	9.00	0.00	14.00	3.00	3.00	0.00	17.00
135	2-chlorobenzoyl Chloride	13.50	5.00	0.00	26.00	3.00	3.00	0.50	17.00
136	Difethialone (T3 based on warfarin)	16.00	1.00	0.00	1.00	1.00	1.00	0.00	17.00
137	Dinitrocresol * #(T3)	16.00	2.00	0.00	3.00	1.00	1.00	0.00	17.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
138	Endrin * #(T3)	72-20-8	0.13	5.00	0.00	5.00	0.00	5.00	5.00	1.00
139	EPN * #(T3)	2104-64-5	0.38	5.00	0.00	5.00	0.00	5.00	5.00	1.00
140	Nitrogen mustard hydrochloride-T3*	55-86-7	0.51	5.00	0.00	5.00	0.00	5.00	5.00	1.00
141	Iron, pentacarbonyl- T3	13463-40-6	0.18	5.00	1.00	3.75	3.00	1.25	2.50	2.50
142	Propylene-T3*	115-07-1	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
143	Potassium nitrate #(T3)	7757-79-1	120.91	2.00	1.00	3.75	0.00	5.00	4.38	1.00
144	Ammonium persulfate *T3	7727-54-0	10.71	3.00	1.00	3.75	0.00	5.00	4.38	1.00
145	Castor oil #(T3)	8001-79-4	13.12	3.00	0.00	5.00	1.00	3.75	4.38	2.50
146	Cobalt (II) nitrate	10141-05-6	12.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
147	Dimethylphthalate * #(T3)	131-11-3	62.96	3.00	0.00	5.00	1.00	3.75	4.38	2.50
148	Paraquat* (dichloride)	1910-42-5	19.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
149	Potassium permanganate #(T3)	7722-64-7	19.34	3.00	1.00	3.75	0.00	5.00	4.38	1.00
150	Tributyl phosphate #(T3)	126-73-8	30.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
151	Mercuric nitrate	10045-94-0	1.07	4.00	1.00	3.75	0.00	5.00	4.38	1.00
152	Methyl parathion #(T3)	298-00-0	1.39	4.00	0.00	5.00	1.00	3.75	4.38	1.00
153	Sodium sulfide #(T3)	1313-82-2	23.51	3.00	1.00	3.75	1.00	3.75	3.75	1.00
154	Germanium tetrafluoride T3	7783-58-6	82.25	3.00	2.00	2.50	0.00	5.00	3.75	5.00
155	Methylene bisphenyl isocyanate * #(E3)	101-68-8	2.40	4.00	1.00	3.75	1.00	3.75	3.75	1.00
156	Ethylene oxide	75-21-8	200.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
157	Xylenes #(T3)	95-47-6	900.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
158	Furfural #(E3)	98-01-1	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
159	Methyl chloroformate-T3*	79-22-1	4.00	4.00	0.00	5.00	3.00	1.25	3.13	2.50
160	Propane	74-98-6	33000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
161	Ethylene dibromide	106-93-4	46.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
162	Metribuzin #(T3 as diazo compound)	21087-64-9	10.98	3.00	0.00	5.00	0.00	5.00	5.00	1.00
163	Sodium borate	12179-04-3	32.09	3.00	0.00	5.00	0.00	5.00	5.00	1.00
164	Hydrogen selenide	7783-07-5	2.20	4.00	1.00	3.75	3.00	1.25	2.50	5.00
165	Diphenyl Ether #(T3)	101-84-8	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
166	Fenvalerate	51630-58-1	29.11	3.00	0.00	5.00	1.00	3.75	4.38	2.50
167	Phosphotungstic acid #(T3 of tungstic acid)	12067-99-1	13.60	3.00	1.00	3.75	0.00	5.00	4.38	2.50
168	Polyphosphoric acid	68333-79-9	14.47	3.00	1.00	3.75	0.00	5.00	4.38	2.50
169	Carbonyl fluoride T3	353-50-4	20.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
170	2-chloroacetophenone *IDLH	532-27-4	2.38	4.00	0.00	5.00	1.00	3.75	4.38	1.00
171	Di-syston #(T3)	298-04-4	6.68	4.00	0.00	5.00	1.00	3.75	4.38	2.50
172	Oxydemeton-methyl #(I)	301-12-2	3.97	4.00	0.00	5.00	1.00	3.75	4.38	2.50
173	Cyclohexanone #(T3)	108-94-1	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
174	Paracetamol #(E3-phenol)	103-90-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
175	Phenol #(E3)	108-95-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
176	Ethylenediamine	107-15-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
177	N,N-Dimethylaniline #(T3)	121-69-7	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
178	o-Tolidine #(T3)	95-53-4	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
179	Titanium tetrachloride-E3*	7550-45-0	12.89	3.00	2.00	2.50	0.00	5.00	3.75	2.50
180	Dichlorosilane T3	4109-96-0	75.00	3.00	2.00	2.50	4.00	0.00	1.25	5.00
181	Sodium azide #(T3)	26628-22-8	4.69	4.00	2.00	2.50	0.00	5.00	3.75	1.00
182	Methylphenyldichlorosilane-T3*	149-74-6	2.56	4.00	0.00	5.00	2.00	2.50	3.75	2.50
183	Ethyl alcohol #(T3)	64-17-5	3300.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
184	Ethyl acetate #(T3)	141-78-6	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
138	Endrin * #(T3)	16.00	1.00	0.00	1.00	1.00	1.00	0.00	17.00
139	EPN * #(T3)	16.00	2.00	0.00	4.00	1.00	1.00	0.00	17.00
140	Nitrogen mustard hydrochloride-T3*	16.00	3.00	0.00	3.00	1.00	1.00	0.00	17.00
141	Iron, pentacarbonyl- T3	15.00	1.00	0.00	8.00	2.00	2.00	0.00	17.00
142	Propylene-T3*	6.88	52.00	5.00	211.00	5.00	10.00	0.00	16.88
143	Potassium nitrate #(T3)	9.38	24.00	2.00	117.00	5.00	7.00	0.50	16.88
144	Ammonium persulfate *T3	11.38	12.00	1.00	57.00	4.00	5.00	0.50	16.88
145	Castor oil #(T3)	12.88	18.00	1.00	50.00	3.00	4.00	0.00	16.88
146	Cobalt (II) nitrate	11.38	18.00	1.00	70.00	4.00	5.00	0.50	16.88
147	Dimethylphthalate * #(T3)	12.88	16.00	1.00	36.00	3.00	4.00	0.00	16.88
148	Paraquat* (dichloride)	11.38	8.00	0.00	29.00	3.00	3.00	2.50	16.88
149	Potassium permanganate #(T3)	11.38	16.00	1.00	57.00	4.00	5.00	0.50	16.88
150	Tributyl phosphate #(T3)	12.88	10.00	1.00	37.00	3.00	4.00	0.00	16.88
151	Mercuric nitrate	13.38	8.00	0.00	14.00	3.00	3.00	0.50	16.88
152	Methyl parathion #(T3)	13.38	7.00	0.00	25.00	3.00	3.00	0.50	16.88
153	Sodium sulfide #(T3)	10.75	21.00	2.00	86.00	4.00	6.00	0.00	16.75
154	Germanium tetrafluoride T3	14.75	2.00	0.00	7.00	2.00	2.00	0.00	16.75
155	Methylene bisphenyl isocyanate * #(E3)	12.75	12.00	1.00	25.00	3.00	4.00	0.00	16.75
156	Ethylene oxide	9.63	32.00	3.00	84.00	4.00	7.00	0.00	16.63
157	Xylenes #(T3)	9.63	32.00	3.00	76.00	4.00	7.00	0.00	16.63
158	Furfural #(E3)	11.63	19.00	1.00	66.00	4.00	5.00	0.00	16.63
159	Methyl chloroformate-T3*	13.63	2.00	0.00	23.00	3.00	3.00	0.00	16.63
160	Propane	7.50	42.00	4.00	142.00	5.00	9.00	0.00	16.50
161	Ethylene dibromide	13.50	7.00	0.00	27.00	3.00	3.00	0.00	16.50
162	Metrribuzin #(T3 as diazo compound)	12.00	11.00	1.00	23.00	3.00	4.00	0.50	16.50
163	Sodium borate	12.00	6.00	0.00	10.00	2.00	2.00	2.50	16.50
164	Hydrogen selenide	15.50	5.00	0.00	5.00	1.00	1.00	0.00	16.50
165	Diphenyl Ether #(T3)	12.88	5.00	0.00	23.00	3.00	3.00	0.50	16.38
166	Fenvalerate	12.88	6.00	0.00	48.00	3.00	3.00	0.50	16.38
167	Phosphotungstic acid #(T3 of tungstic acid)	12.88	9.00	0.00	21.00	3.00	3.00	0.50	16.38
168	Polyphosphoric acid	12.88	9.00	0.00	26.00	3.00	3.00	0.50	16.38
169	Carbonyl fluoride T3	15.38	1.00	0.00	3.00	1.00	1.00	0.00	16.38
170	2-chloroacetophenone *IDLH	13.38	6.00	0.00	11.00	3.00	3.00	0.00	16.38
171	Di-syston #(T3)	14.88	3.00	0.00	3.00	1.00	1.00	0.50	16.38
172	Oxydemeton-methyl #(I)	14.88	3.00	0.00	3.00	1.00	1.00	0.50	16.38
173	Cyclohexanone #(T3)	10.25	25.00	2.00	72.00	4.00	6.00	0.00	16.25
174	Paracetamol #(E3-phenol)	8.75	23.00	2.00	106.00	5.00	7.00	0.50	16.25
175	Phenol #(E3)	8.75	26.00	2.00	129.00	5.00	7.00	0.50	16.25
176	Ethylenediamine	12.25	12.00	1.00	32.00	3.00	4.00	0.00	16.25
177	N,N-Dimethylaniline #(T3)	12.25	11.00	1.00	41.00	3.00	4.00	0.00	16.25
178	o-Tolidine #(T3)	12.25	11.00	1.00	32.00	3.00	4.00	0.00	16.25
179	Titanium tetrachloride-E3*	12.25	15.00	1.00	25.00	3.00	4.00	0.00	16.25
180	Dichlorosilane T3	12.25	12.00	1.00	12.00	3.00	4.00	0.00	16.25
181	Sodium azide #(T3)	12.75	8.00	0.00	35.00	3.00	3.00	0.50	16.25
182	Methylphenyldichlorosilane-T3*	14.25	1.00	0.00	6.00	2.00	2.00	0.00	16.25
183	Ethyl alcohol #(T3)	5.63	51.00	5.00	321.00	5.00	10.00	0.50	16.13
184	Ethyl acetate #(T3)	7.63	30.00	3.00	139.00	5.00	8.00	0.50	16.13

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
185	Isobutyl alcohol #(T3)	78-83-1	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
186	Isopropyl alcohol #(T3)	67-63-0	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
187	Chloropicrin	76-06-2	1.40	4.00	3.00	1.25	0.00	5.00	3.13	2.50
188	Fluorotrichloromethane #(T3)	75-69-4	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
189	Carbon tetrachloride	56-23-5	520.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
190	Deltaamethrin #(I as in pyrethrum)	52918-63-5	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
191	2,4-D * #(T3)	94-75-7	11.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
192	Carbaryl * #(T3)	63-25-2	12.15	3.00	0.00	5.00	0.00	5.00	5.00	1.00
193	Collodion #(T3)	9004-70-0	12.23	3.00	0.00	5.00	4.00	0.00	2.50	2.50
194	Dinitrogen tetroxide T3	10544-72-6	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
195	Thallium sulfate #(T3 of T1)	7446-18-6	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
196	Hexachloronaphthalene * #(T3)	1335-87-1	0.15	5.00	0.00	5.00	0.00	5.00	5.00	1.00
197	Chloromethyl ether E3	542-88-1	0.50	5.00	1.00	3.75	3.00	1.25	2.50	2.50
198	MDEA-R* (N-Methyldiethanolamine	105-59-9	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
199	Magnesium (powder)-T3*	7439-95-4	251.49	2.00	2.00	2.50	3.00	1.25	1.88	1.00
200	Bismuth *T3 of BiOCl	7440-69-9	47.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
201	Methidathion #(T3)	950-37-8	32.35	3.00	0.00	5.00	1.00	3.75	4.38	1.00
202	alpha-Chloroacetophenone * #(I)	532-27-4	2.37	4.00	0.00	5.00	1.00	3.75	4.38	1.00
203	Phenamiphos #(T3)	22224-92-6	3.22	4.00	0.00	5.00	1.00	3.75	4.38	1.00
204	Antimony Pentafluoride T3	7783-70-2	8.46	4.00	1.00	3.75	0.00	5.00	4.38	2.50
205	Dimethylformamide	68-12-2	530.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
206	Naphthalene #(T3)	91-20-3	250.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
207	Sulfur trioxide	11/9/7446	160.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
208	Hydrogen iodide T3	10034-85-2	120.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
209	2-Diethylaminoethanol #(I)	100-37-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
210	Bromoxylin #(T3-as naphtha solution only)	1689-84-5	80.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
211	Aluminum chloride, anhydrous *T3	7446-70-0	91.68	3.00	2.00	2.50	0.00	5.00	3.75	1.00
212	Phosphorus pentachloride * #(T3)	10026-13-8	8.22	4.00	2.00	2.50	0.00	5.00	3.75	1.00
213	Sulfur trioxide-E3*	7446-11-9	9.16	4.00	2.00	2.50	0.00	5.00	3.75	1.00
214	Acetylene *T3	74-86-2	6000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
215	Ethylene dichloride #(E3)	107-06-2	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
216	Benzyl chloride #(E3)	100-44-7	25.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
217	Furfuryl alcohol #(T3)	98-00-0	75.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
218	Diborane	19287-45-7	3.70	4.00	3.00	1.25	4.00	0.00	0.63	5.00
219	Nitroglycerin #(T3)	55-63-0	8.07	4.00	4.00	0.00	3.00	1.25	0.63	2.50
220	Chlorodiphenyl (42% chlorine)* #(T3)	53469-21-9	0.47	5.00	2.00	2.50	1.00	3.75	3.13	2.50
221	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	78-53-5	0.30	5.00	1.00	3.75	2.00	2.50	3.13	2.50
222	Bromoform #(T3)	75-25-2	850.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
223	Dimethylamine	124-40-3	250.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
224	Ethylamine	75-04-7	270.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
225	Methylamine	74-89-5	350.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
226	Potassium fluoride #(T3)	7789-23-3	210.38	2.00	0.00	5.00	0.00	5.00	5.00	1.00
227	Aluminum (powder) *T3	7429-90-5	226.54	2.00	1.00	3.75	3.00	1.25	2.50	1.00
228	1,1,2,2-Tetrachloroethane #(T3)	79-34-5	100.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
185	Isobutyl alcohol #(T3)	7.63	27.00	2.00	80.00	4.00	6.00	2.50	16.13
186	Isopropyl alcohol #(T3)	7.63	24.00	2.00	90.00	4.00	6.00	2.50	16.13
187	Chloropicrin	13.63	3.00	0.00	7.00	2.00	2.00	0.50	16.13
188	Fluorotrichloromethane #(T3)	12.00	12.00	1.00	18.00	3.00	4.00	0.00	16.00
189	Carbon tetrachloride	11.50	16.00	1.00	49.00	3.00	4.00	0.50	16.00
190	Deltaamethrin #(I as in pyrethrum)	11.50	15.00	1.00	41.00	3.00	4.00	0.50	16.00
191	2,4-D * #(T3)	12.00	15.00	1.00	32.00	3.00	4.00	0.00	16.00
192	Carbaryl * #(T3)	12.00	10.00	1.00	25.00	3.00	4.00	0.00	16.00
193	Collodion #(T3)	11.00	22.00	2.00	40.00	3.00	5.00	0.00	16.00
194	Dinitrogen tetroxide T3	16.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
195	Thallium sulfate #(T3 of T1)	14.00	4.00	0.00	8.00	2.00	2.00	0.00	16.00
196	Hexachloronaphthalene * #(T3)	16.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00
197	Chloromethyl ether E3	15.00	1.00	0.00	1.00	1.00	1.00	0.00	16.00
198	MDEA-R* (N-Methyldiethanolamine	10.88	24.00	2.00	44.00	3.00	5.00	0.00	15.88
199	Magnesium (powder)-T3*	6.88	42.00	4.00	423.00	5.00	9.00	0.00	15.88
200	Bismuth *T3 of BiOCl	11.38	15.00	1.00	26.00	3.00	4.00	0.50	15.88
201	Methidathion #(T3)	11.38	4.00	0.00	9.00	2.00	2.00	2.50	15.88
202	alpha-Chloroacetophenone * #(I)	13.38	3.00	0.00	10.00	2.00	2.00	0.50	15.88
203	Phenamiphos #(T3)	13.38	3.00	0.00	6.00	2.00	2.00	0.50	15.88
204	Antimony Pentafluoride T3	14.88	3.00	0.00	4.00	1.00	1.00	0.00	15.88
205	Dimethylformamide	10.25	19.00	1.00	64.00	4.00	5.00	0.50	15.75
206	Naphthalene #(T3)	8.75	25.00	2.00	103.00	5.00	7.00	0.00	15.75
207	Sulfur trioxide	12.75	7.00	0.00	13.00	3.00	3.00	0.00	15.75
208	Hydrogen iodide T3	12.75	2.00	0.00	30.00	3.00	3.00	0.00	15.75
209	2-Diethylaminoethanol #(I)	12.25	0.00	0.00	23.00	3.00	3.00	0.50	15.75
210	Bromoxylin #(T3-as naptha solution only)	12.25	5.00	0.00	14.00	3.00	3.00	0.50	15.75
211	Aluminum chloride, anhydrous *T3	10.75	10.00	1.00	99.00	4.00	5.00	0.00	15.75
212	Phosphorus pentachloride * #(T3)	12.75	7.00	0.00	17.00	3.00	3.00	0.00	15.75
213	Sulfur trioxide-E3*	12.75	6.00	0.00	12.00	3.00	3.00	0.00	15.75
214	Acetylene *T3	5.63	93.00	5.00	253.00	5.00	10.00	0.00	15.63
215	Ethylene dichloride #(E3)	9.63	28.00	2.00	70.00	4.00	6.00	0.00	15.63
216	Benzyl chloride #(E3)	11.63	12.00	1.00	41.00	3.00	4.00	0.00	15.63
217	Furfuryl alcohol #(T3)	11.63	12.00	1.00	38.00	3.00	4.00	0.00	15.63
218	Diborane	13.63	7.00	0.00	8.00	2.00	2.00	0.00	15.63
219	Nitroglycerin #(T3)	11.13	13.00	1.00	22.00	3.00	4.00	0.50	15.63
220	Chlorodiphenyl (42% chlorine)* #(T3)	15.63	0.00	0.00	0.00	0.00	0.00	0.00	15.63
221	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3	15.63	0.00	0.00	0.00	0.00	0.00	0.00	15.63
222	Bromoform #(T3)	11.50	10.00	1.00	24.00	3.00	4.00	0.00	15.50
223	Dimethylamine	11.50	14.00	1.00	41.00	3.00	4.00	0.00	15.50
224	Ethylamine	11.50	14.00	1.00	33.00	3.00	4.00	0.00	15.50
225	Methylamine	11.50	14.00	1.00	46.00	3.00	4.00	0.00	15.50
226	Potassium fluoride #(T3)	10.00	14.00	1.00	82.00	4.00	5.00	0.50	15.50
227	Aluminum (powder) *T3	7.50	39.00	3.00	520.00	5.00	8.00	0.00	15.50
228	1,1,2,2-Tetrachloroethane #(T3)	13.50	6.00	0.00	10.00	2.00	2.00	0.00	15.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
229	Buprofezin #(T3 based on limited acute toxicity pesticide)	69327-76-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
230	Fenpropathrin #(A EGL-3 of Cyano group of the carboxylate family)	39515-41-8	25.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
231	Methamidophos	10265-92-6	10.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
232	Antimony oxide *#T3	1309-64-4	6.43	4.00	0.00	5.00	0.00	5.00	5.00	1.00
233	Pirimicarb #(T3 as carbamate ester)	5947-49-9	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
234	Thallium #(T3)	7440-28-0	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
235	Methyl iodide #(E3)	74-88-4	125.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
236	Oxalic acid * #(T3)	144-62-7	135.77	2.00	0.00	5.00	1.00	3.75	4.38	1.00
237	2,6-di-tert-butyl-p-cresol *#T3	128-37-0	44.45	3.00	0.00	5.00	1.00	3.75	4.38	1.00
238	Acrylonitrile	107-13-1	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
239	Hydroquinone * #(T3)	123-31-9	11.10	3.00	0.00	5.00	1.00	3.75	4.38	1.00
240	Acryl Chloride *#T3	814-68-6	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
241	Chloromethyl methyl ether E3	107-30-2	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
242	Methyl isocyanate	624-83-9	0.20	5.00	2.00	2.50	3.00	1.25	1.88	2.50
243	4-chlorobutynitrile (as CN)	628-20-6	25.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50
244	Barium *#T3	7440-39-3	22.31	3.00	2.00	2.50	0.00	5.00	3.75	1.00
245	Dichloroethyl ether #(T3)	111-44-4	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
246	Ethylene chlorohydrin	107-07-3	12.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
247	Monomethyl aniline #(T3)	100-61-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
248	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	88-72-2; 99-08-1; 99-99-0	60.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50
249	Phenylhydrazine #(T3)	100-63-0	15.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
250	Sulfuryl chloride-T3*	7791-25-5	15.00	3.00	2.00	2.50	0.00	5.00	3.75	2.50
251	Chloroacetaldehyde	107-20-0	9.90	4.00	2.00	2.50	0.00	5.00	3.75	2.50
252	Oxygen difluoride	7783-41-7	2.50	4.00	3.00	1.25	3.00	1.25	1.25	5.00
253	Benzene	71-43-2	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
254	Methyl alcohol	67-56-1	7200.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
255	Toluene	108-88-3	4500.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
256	Chlorine pentafluoride T3	13637-63-3	60.00	3.00	3.00	1.25	0.00	5.00	3.13	5.00
257	o-Chlorobenzylidene malononitrile * #(T3)	2698-41-1	0.26	5.00	0.00	5.00	3.00	1.25	3.13	1.00
258	Carbon monoxide/Syngas	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
259	Nitrogen trioxide-T3*	10544-73-7	500.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
260	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22)	118-52-5	62.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
261	p-Nitrochlorobenzene * #(T3)	100-00-5	15.52	3.00	3.00	1.25	1.00	3.75	2.50	1.00
262	Acetone cyanohydrin, stabilized *#T-3	75-86-5	15.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
263	Acetyl Bromide *#T3	506-96-7	20.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
264	Heptachlor *#T3)	76-44-8	2.29	4.00	0.00	5.00	0.00	5.00	5.00	1.00
265	Phenyltrichlorosilane-T3*	98-13-5	4.62	4.00	2.00	2.50	2.00	2.50	2.50	2.50
266	1,1,2-Trichloroethane #(T3)	79-00-5	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
267	Bifenthrin Tox est. on Pyr.	82657-04-3	20.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
268	Biphenyl * #(T3)	92-52-4	15.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
229	Buprofezin #(T3 based on limited acute toxicity pesticide)	12.00	5.00	0.00	27.00	3.00	3.00	0.50	15.50
230	Fenpropothrin #(A EGL-3 of Cyano group of the carboxylate family)	12.00	3.00	0.00	19.00	3.00	3.00	0.50	15.50
231	Methamidophos	12.00	9.00	0.00	45.00	3.00	3.00	0.50	15.50
232	Antimony oxide *T3	14.00	2.00	0.00	4.00	1.00	1.00	0.50	15.50
233	Pirimicarb #(T3 as carbamate ester)	14.00	1.00	0.00	1.00	1.00	1.00	0.50	15.50
234	Thallium #(T3)	14.00	5.00	0.00	5.00	1.00	1.00	0.50	15.50
235	Methyl iodide #(E3)	10.88	10.00	1.00	40.00	3.00	4.00	0.50	15.38
236	Oxalic acid * #(T3)	9.38	16.00	1.00	106.00	5.00	6.00	0.00	15.38
237	2,6-di-tert-butyl-p-cresol *T3	11.38	13.00	1.00	48.00	3.00	4.00	0.00	15.38
238	Acrylonitrile	10.38	16.00	1.00	53.00	4.00	5.00	0.00	15.38
239	Hydroquinone * #(T3)	11.38	15.00	1.00	41.00	3.00	4.00	0.00	15.38
240	Acryl Chloride *T3	12.38	5.00	0.00	15.00	3.00	3.00	0.00	15.38
241	Chloromethyl methyl ether E3	12.38	8.00	0.00	11.00	3.00	3.00	0.00	15.38
242	Methyl isocyanate	14.38	2.00	0.00	2.00	1.00	1.00	0.00	15.38
243	4-chlorobutynitrile (as CN)	12.25	4.00	0.00	11.00	3.00	3.00	0.00	15.25
244	Barium *T3	10.75	11.00	1.00	13.00	3.00	4.00	0.50	15.25
245	Dichloroethyl ether #(T3)	12.25	4.00	0.00	12.00	3.00	3.00	0.00	15.25
246	Ethylene chlorohydrin	12.25	6.00	0.00	17.00	3.00	3.00	0.00	15.25
247	Monomethyl aniline #(T3)	12.25	6.00	0.00	17.00	3.00	3.00	0.00	15.25
248	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	12.25	7.00	0.00	19.00	3.00	3.00	0.00	15.25
249	Phenylhydrazine #(T3)	12.25	8.00	0.00	23.00	3.00	3.00	0.00	15.25
250	Sulfuryl chloride-T3*	12.25	7.00	0.00	17.00	3.00	3.00	0.00	15.25
251	Chloroacetaldehyde	14.25	4.00	0.00	5.00	1.00	1.00	0.00	15.25
252	Oxygen difluoride	14.25	2.00	0.00	2.00	1.00	1.00	0.00	15.25
253	Benzene	5.63	42.00	4.00	291.00	5.00	9.00	0.50	15.13
254	Methyl alcohol	5.63	47.00	4.00	268.00	5.00	9.00	0.50	15.13
255	Toluene	5.63	40.00	4.00	237.00	5.00	9.00	0.50	15.13
256	Chlorine pentafluoride T3	14.13	1.00	0.00	1.00	1.00	1.00	0.00	15.13
257	o-Chlorobenzylidene malononitrile * #(T3)	14.13	1.00	0.00	1.00	1.00	1.00	0.00	15.13
258	Carbon monoxide/Syngas	7.50	31.00	3.00	55.00	4.00	7.00	0.50	15.00
259	Nitrogen trioxide-T3*	14.00	1.00	0.00	2.00	1.00	1.00	0.00	15.00
260	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22)	12.00	3.00	0.00	16.00	3.00	3.00	0.00	15.00
261	p-Nitrochlorobenzene * #(T3)	9.50	6.00	0.00	25.00	3.00	3.00	2.50	15.00
262	Acetone cyanohydrin, stabilized *T-3	11.00	13.00	1.00	22.00	3.00	4.00	0.00	15.00
263	Acetyl Bromide *T3	11.00	10.00	1.00	23.00	3.00	4.00	0.00	15.00
264	Heptachlor * #(T3)	14.00	1.00	0.00	1.00	1.00	1.00	0.00	15.00
265	Phenyltrichlorosilane-T3*	13.00	1.00	0.00	9.00	2.00	2.00	0.00	15.00
266	1,1,2-Trichloroethane #(T3)	12.88	2.00	0.00	7.00	2.00	2.00	0.00	14.88
267	Bifenthrin Tox est. on Pyr.	11.38	5.00	0.00	20.00	3.00	3.00	0.50	14.88
268	Biphenyl * #(T3)	11.38	7.00	0.00	18.00	3.00	3.00	0.50	14.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
269	guanidine hydrochloride	50-01-1	51.28	3.00	0.00	5.00	1.00	3.75	4.38	1.00
270	Methyl mercaptan	74-93-1	68.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
271	Thiophanate methyl #(T3 of carbamate fungicides)	23564-05-8	11.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
272	Triethanolamine-T3*	102-71-6	81.94	3.00	0.00	5.00	1.00	3.75	4.38	2.50
273	Tetramethylethylenediamine #(T#)	110-18-9	125.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
274	2-thiophenecarbonitrile (as CN)	1003-31-2	25.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
275	Camphor (synthetic) * #(T3)	76-22-2	32.11	3.00	0.00	5.00	2.00	2.50	3.75	1.00
276	Quinone #(T3)	106-51-4	22.60	3.00	0.00	5.00	2.00	2.50	3.75	1.00
277	Toluene sulfonic acid #(T3 based on barium salt of the acid)	70788-37-3	70.99	3.00	1.00	3.75	1.00	3.75	3.75	2.50
278	Potassium chlorate	3811-04-9	69.83	3.00	2.00	2.50	0.00	5.00	3.75	1.00
279	Acrolein	107-02-8	1.40	4.00	3.00	1.25	3.00	1.25	1.25	2.50
280	Sodium borohydride #(T3)	16940-66-2	4.85	4.00	3.00	1.25	3.00	1.25	1.25	1.00
281	Nickel Carbonyl-T3*	13463-39-3	0.16	5.00	3.00	1.25	3.00	1.25	1.25	2.50
282	n-Butyl alcohol #(T3)	71-36-3	1400.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
283	Acetic anhydride #(T3)	108-24-7	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
284	Chlorobenzene	108-90-7	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
285	Hexone #(T3)	108-10-1	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
286	Isoamyl alcohol (primary and secondary) #(T3)	123-51-3	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
287	N-Ethylmorpholine #(I)	100-74-3	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
288	Sulfur monochloride	10025-67-9	15.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
289	Cyclohexylamine T3	108-91-8	30.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
290	Propyl chloroformate-T3*	109-61-5	60.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
291	Diazomethane #(T3)	334-88-3	2.00	4.00	4.00	0.00	3.00	1.25	0.63	5.00
292	Ethyl phosphonothioic dichloride R	993-43-1	7.50	4.00	1.00	3.75	2.00	2.50	3.13	2.50
293	Fluorosulfonic acid T3	7789-21-1	7.33	4.00	3.00	1.25	0.00	5.00	3.13	2.50
294	Butane T3	106-97-8	19000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
295	Boron *T3 of B2O3	7440-42-8	175.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
296	Iron phosphate #(T3 as iron)	10045-86-0	214.47	2.00	0.00	5.00	0.00	5.00	5.00	1.00
297	Trimethylamine-E3*	75-50-3	500.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
298	Aldicarb *T#	116-06-3	12.87	3.00	0.00	5.00	0.00	5.00	5.00	1.00
299	Crag (r) herbicide #(T3)	136-78-7	39.55	3.00	0.00	5.00	0.00	5.00	5.00	1.00
300	Cyanide	57-12-5	25.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
301	Aldrin * #(T3)	309-00-2	1.68	4.00	0.00	5.00	0.00	5.00	5.00	1.00
302	Dieldrin * #(T3)	60-57-1	3.21	4.00	0.00	5.00	0.00	5.00	5.00	1.00
303	Mercuric Salicylate #(T3 of Hg)	5970-32-1	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
304	Tetraethyl lead #(T3)	78-00-2	4.51	4.00	2.00	2.50	2.00	2.50	2.50	2.50
305	Epichlorohydrin #(I)	106-89-8	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
306	Halothane (T:V)	151-67-7	50.00	3.00	1.00	3.75	0.00	5.00	4.38	2.50
307	Triphenyl phosphate*	115-86-6	37.47	3.00	0.00	5.00	1.00	3.75	4.38	1.00
308	Diketene	674-82-8	2.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
309	Methyl hydrazine	60-34-4	2.70	4.00	2.00	2.50	3.00	1.25	1.88	2.50
310	1,3-Butadiene	106-99-0	22000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
311	Cyclohexanol #(T3)	108-93-0	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
312	Dimethyl acetamide #(T3)	127-19-5	300.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
313	Methyl (n-amyl) ketone #(T3)	110-43-0	800.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
269	guanidine hydrochloride	11.38	7.00	0.00	12.00	3.00	3.00	0.50	14.88
270	Methyl mercaptan	12.88	6.00	0.00	9.00	2.00	2.00	0.00	14.88
271	Thiophanate methyl #(T3 of carbamate fungicides)	11.38	8.00	0.00	30.00	3.00	3.00	0.50	14.88
272	Triethanolamine-T3*	12.88	6.00	0.00	6.00	2.00	2.00	0.00	14.88
273	Tetramethylethylenediamine #(T#)	10.25	10.00	1.00	18.00	3.00	4.00	0.50	14.75
274	2-thiophenecarbonitrile (as CN)	12.25	4.00	0.00	9.00	2.00	2.00	0.50	14.75
275	Camphor (synthetic) *(#T3)	10.75	13.00	1.00	37.00	3.00	4.00	0.00	14.75
276	Quinone #(T3)	10.75	12.00	1.00	25.00	3.00	4.00	0.00	14.75
277	Toluene sulfonic acid #(T3 based on barium salt of the acid)	12.25	5.00	0.00	6.00	2.00	2.00	0.50	14.75
278	Potassium chlorate	10.75	11.00	1.00	38.00	3.00	4.00	0.00	14.75
279	Acrolein	11.75	7.00	0.00	12.00	3.00	3.00	0.00	14.75
280	Sodium borohydride #(T3)	10.25	13.00	1.00	34.00	3.00	4.00	0.50	14.75
281	Nickel Carbonyl-T3*	13.75	1.00	0.00	2.00	1.00	1.00	0.00	14.75
282	n-Butyl alcohol #(T3)	7.63	26.00	2.00	106.00	5.00	7.00	0.00	14.63
283	Acetic anhydride #(T3)	9.63	19.00	1.00	55.00	4.00	5.00	0.00	14.63
284	Chlorobenzene	9.63	13.00	1.00	53.00	4.00	5.00	0.00	14.63
285	Hexone #(T3)	9.63	17.00	1.00	52.00	4.00	5.00	0.00	14.63
286	Isoamyl alcohol (primary and secondary) #(T3)	9.63	18.00	1.00	60.00	4.00	5.00	0.00	14.63
287	N-Ethylmorpholine #(I)	11.63	7.00	0.00	12.00	3.00	3.00	0.00	14.63
288	Sulfur monochloride	11.63	8.00	0.00	15.00	3.00	3.00	0.00	14.63
289	Cyclohexylamine T3	11.63	8.00	0.00	32.00	3.00	3.00	0.00	14.63
290	Propyl chloroformate-T3*	11.63	2.00	0.00	12.00	3.00	3.00	0.00	14.63
291	Diazomethane #(T3)	13.63	2.00	0.00	2.00	1.00	1.00	0.00	14.63
292	Ethyl phosphonothioic dichloride R	13.63	1.00	0.00	1.00	1.00	1.00	0.00	14.63
293	Fluorosulfonic acid T3	13.63	1.00	0.00	2.00	1.00	1.00	0.00	14.63
294	Butane T3	7.50	36.00	3.00	97.00	4.00	7.00	0.00	14.50
295	Boron *T3 of B2O3	10.00	10.00	1.00	23.00	3.00	4.00	0.50	14.50
296	Iron phosphate #(T3 as iron)	10.00	5.00	0.00	7.00	2.00	2.00	2.50	14.50
297	Trimethylamine-E3*	11.50	8.00	0.00	41.00	3.00	3.00	0.00	14.50
298	Aldicarb *T#	12.00	4.00	0.00	6.00	2.00	2.00	0.50	14.50
299	Crag (r) herbicide #(T3)	12.00	0.00	0.00	0.00	0.00	0.00	2.50	14.50
300	Cyanide	13.50	1.00	0.00	1.00	1.00	1.00	0.00	14.50
301	Aldrin * #(T3)	14.00	0.00	0.00	0.00	0.00	0.00	0.50	14.50
302	Dieldrin * #(T3)	14.00	0.00	0.00	0.00	0.00	0.00	0.50	14.50
303	Mercuric Salicylate #(T3 of Hg)	14.00	0.00	0.00	0.00	0.00	0.00	0.50	14.50
304	Tetraethyl lead #(T3)	13.00	1.00	0.00	2.00	1.00	1.00	0.50	14.50
305	Epichlorohydrin #(I)	10.38	15.00	1.00	34.00	3.00	4.00	0.00	14.38
306	Halothane (T:V)	12.88	3.00	0.00	4.00	1.00	1.00	0.50	14.38
307	Triphenyl phosphate*	11.38	5.00	0.00	21.00	3.00	3.00	0.00	14.38
308	Diketene	12.38	3.00	0.00	8.00	2.00	2.00	0.00	14.38
309	Methyl hydrazine	12.38	4.00	0.00	6.00	2.00	2.00	0.00	14.38
310	1,3-Butadiene	6.25	31.00	3.00	111.00	5.00	8.00	0.00	14.25
311	Cyclohexanol #(T3)	10.25	15.00	1.00	27.00	3.00	4.00	0.00	14.25
312	Dimethyl acetamide #(T3)	10.25	11.00	1.00	38.00	3.00	4.00	0.00	14.25
313	Methyl (n-amyl) ketone #(T3)	10.25	11.00	1.00	20.00	3.00	4.00	0.00	14.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
314	Allyl glycidyl ether #(I)	106-92-3	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
315	Dibutyl phosphate #(T3)	107-66-4	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
316	p-tert-Butyltoluene #(I)	98-51-1	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
317	Iodine pentafluoride R	7783-66-6	98.07	3.00	2.00	2.50	0.00	5.00	3.75	2.50
318	Chlordane * #(T3)	57-74-9	5.97	4.00	0.00	5.00	2.00	2.50	3.75	2.50
319	Mercury oxycyanide as Hg	1335-31-5	1.08	4.00	2.00	2.50	0.00	5.00	3.75	1.00
320	Stibine	7803-52-3	9.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
321	tert-Butyl chromate #(I)	1189-85-1	1.59	4.00	0.00	5.00	2.00	2.50	3.75	2.50
322	Cyclohexane #(T3)	110-82-7	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
323	Acetonitrile	75-05-8	670.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
324	n-Amyl acetate #(T3)	628-63-7	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
325	n-Propyl alcohol #(T3)	71-23-8	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
326	Phosphorus pentasulfide * #(T3)	1314-80-3	27.50	3.00	2.00	2.50	1.00	3.75	3.13	1.00
327	Chloroform	67-66-3	3200.00	0.00	0.00	5.00	0.00	5.00	5.00	2.50
328	Dichlorodifluoromethane #(T3)	75-71-8	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
329	Chloroform-D	865-49-6	500.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
330	Cumene	98-82-8	730.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
331	Allyl alcohol	107-18-6	20.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
332	Ferbam * #(I)	14484-64-1	15.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
333	Propionitrile-T3*	107-12-0	37.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
334	Ethyltrichlorosilane T3	115-21-9	6.00	4.00	2.00	2.50	2.00	2.50	2.50	2.50
335	Boron trifluoride compound with methyl ether (1:1) T3	353-42-4	7.50	4.00	2.00	2.50	2.00	2.50	2.50	2.50
336	Mancozeb	8018-01-7	146.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
337	Perchloryl fluoride #(T3)	7616-94-6	100.00	3.00	3.00	1.25	2.00	2.50	1.88	5.00
338	Xylylidine #(T3)	1300-73-8	50.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
339	Arsenic trichloride T3	7784-34-1	12.50	3.00	1.00	3.75	0.00	5.00	4.38	2.50
340	Cyanogen T3	460-19-5	15.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
341	Sodium hydrosulfite-T3*	7775-14-6	35.11	3.00	2.00	2.50	3.00	1.25	1.88	1.00
342	Mercuric arsenate #(T3 of Hg)	7784-37-4	1.08	4.00	1.00	3.75	0.00	5.00	4.38	1.00
343	Trinitrophenol-T3*	88-89-1	8.00	4.00	4.00	0.00	1.00	3.75	1.88	1.00
344	1-methyl imidazole LD50	616-47-7	417.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
345	Bromobenzene #(T3)	108-86-1	350.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
346	Potassium perchlorate-T3*	7778-74-7	88.24	3.00	2.00	2.50	0.00	5.00	3.75	1.00
347	Calcium phosphide SC	1305-99-3	1.80	4.00	2.00	2.50	0.00	5.00	3.75	1.00
348	Pentaborane	19624-22-7	0.70	5.00	2.00	2.50	4.00	0.00	1.25	2.50
349	Acetone	67-64-1	5700.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
350	n-Butyl acetate #(E3)	123-86-4	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
351	Ethyl benzene	100-41-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
352	Isobutyl acetate #(T3)	110-19-0	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
353	Diethylamine #(T3)	109-89-7	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
354	Isoamyl acetate #(T3)	123-92-2	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
355	Methyl Cellosolve (n) #(I)	109-86-4	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
356	n-Heptane #(T3)	142-82-5	750.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
357	Pyridine #(T3)	110-86-1	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
358	Triethylamine #(T3)	121-44-8	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
359	Piperidine-T3*	110-89-4	250.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
360	1,2,3-Trichloropropane #(T3)	96-18-4	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
314	Allyl glycidyl ether #(I)	12.25	6.00	0.00	8.00	2.00	2.00	0.00	14.25
315	Dibutyl phosphate #(T3)	12.25	6.00	0.00	8.00	2.00	2.00	0.00	14.25
316	p-tert-Butyltoluene #(I)	12.25	4.00	0.00	6.00	2.00	2.00	0.00	14.25
317	Iodine pentafluoride R	12.25	2.00	0.00	8.00	2.00	2.00	0.00	14.25
318	Chlordane * #(T3)	14.25	0.00	0.00	0.00	0.00	0.00	0.00	14.25
319	Mercury oxycyanide as Hg	12.75	2.00	0.00	2.00	1.00	1.00	0.50	14.25
320	Stibine	14.25	0.00	0.00	0.00	0.00	0.00	0.00	14.25
321	tert-Butyl chromate #(I)	14.25	0.00	0.00	0.00	0.00	0.00	0.00	14.25
322	Cyclohexane #(T3)	7.63	26.00	2.00	75.00	4.00	6.00	0.50	14.13
323	Acetonitrile	9.63	19.00	1.00	50.00	3.00	4.00	0.50	14.13
324	n-Amyl acetate *(T3)	9.63	14.00	1.00	37.00	3.00	4.00	0.50	14.13
325	n-Propyl alcohol *(T3)	9.63	18.00	1.00	50.00	3.00	4.00	0.50	14.13
326	Phosphorus pentasulfide * #(T3)	10.13	12.00	1.00	28.00	3.00	4.00	0.00	14.13
327	Chloroform	7.50	20.00	2.00	81.00	4.00	6.00	0.50	14.00
328	Dichlorodifluoromethane *(T3)	10.00	14.00	1.00	25.00	3.00	4.00	0.00	14.00
329	Chloroform-D	11.50	6.00	0.00	10.00	2.00	2.00	0.50	14.00
330	Cumene	9.00	20.00	2.00	39.00	3.00	5.00	0.00	14.00
331	Allyl alcohol	11.00	6.00	0.00	13.00	3.00	3.00	0.00	14.00
332	Ferbam * #(I)	12.00	6.00	0.00	8.00	2.00	2.00	0.00	14.00
333	Propionitrile-T3*	11.00	3.00	0.00	14.00	3.00	3.00	0.00	14.00
334	Ethyltrichlorosilane T3	13.00	1.00	0.00	2.00	1.00	1.00	0.00	14.00
335	Boron trifluoride compound with methyl ether (1:1) T3	13.00	2.00	0.00	5.00	1.00	1.00	0.00	14.00
336	Mancozeb	9.38	12.00	1.00	41.00	3.00	4.00	0.50	13.88
337	Perchloryl fluoride *(T3)	12.88	1.00	0.00	1.00	1.00	1.00	0.00	13.88
338	Xylylne *(T3)	12.88	4.00	0.00	4.00	1.00	1.00	0.00	13.88
339	Arsenic trichloride T3	12.88	1.00	0.00	5.00	1.00	1.00	0.00	13.88
340	Cyanogen T3	12.88	2.00	0.00	2.00	1.00	1.00	0.00	13.88
341	Sodium hydrosulfite-T3*	8.88	20.00	2.00	48.00	3.00	5.00	0.00	13.88
342	Mercuric arsenate *(T3 of Hg)	13.38	0.00	0.00	0.00	0.00	0.00	0.50	13.88
343	Trinitrophenol-T3*	10.88	8.00	0.00	18.00	3.00	3.00	0.00	13.88
344	1-methyl imidazole LD50	10.25	8.00	0.00	22.00	3.00	3.00	0.50	13.75
345	Bromobenzene *(T3)	10.25	8.00	0.00	34.00	3.00	3.00	0.50	13.75
346	Potassium perchlorate-T3*	10.75	7.00	0.00	27.00	3.00	3.00	0.00	13.75
347	Calcium phosphide SC	12.75	1.00	0.00	1.00	1.00	1.00	0.00	13.75
348	Pentaborane	13.75	0.00	0.00	0.00	0.00	0.00	0.00	13.75
349	Acetone	5.63	30.00	3.00	146.00	5.00	8.00	0.00	13.63
350	n-Butyl acetate *(E3)	5.63	30.00	3.00	124.00	5.00	8.00	0.00	13.63
351	Ethyl benzene	7.63	21.00	2.00	51.00	4.00	6.00	0.00	13.63
352	Isobutyl acetate *(T3)	7.63	21.00	2.00	56.00	4.00	6.00	0.00	13.63
353	Diethylamine *(T3)	9.63	16.00	1.00	39.00	3.00	4.00	0.00	13.63
354	Isoamyl acetate *(T3)	9.63	13.00	1.00	46.00	3.00	4.00	0.00	13.63
355	Methyl Cellosolve (n) #(I)	9.63	13.00	1.00	30.00	3.00	4.00	0.00	13.63
356	n-Heptane *(T3)	9.63	17.00	1.00	48.00	3.00	4.00	0.00	13.63
357	Pyridine *(T3)	9.63	15.00	1.00	49.00	3.00	4.00	0.00	13.63
358	Triethylamine *(T3)	9.63	17.00	1.00	46.00	3.00	4.00	0.00	13.63
359	Piperidine-T3*	9.63	11.00	1.00	21.00	3.00	4.00	0.00	13.63
360	1,2,3-Trichloropropane *(T3)	11.63	6.00	0.00	10.00	2.00	2.00	0.00	13.63

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
361	Phenyl glycidyl ether #(I)	122-60-1	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
362	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	76-13-1	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
363	Tetrachloroethylene	127-18-4	1200.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
364	Dioxane	123-91-1	760.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
365	Acrylamide * #(T3)	79-06-1	20.64	3.00	2.00	2.50	2.00	2.50	2.50	1.00
366	DDT * #(T3)	50-29-3	34.49	3.00	0.00	5.00	0.00	5.00	5.00	1.00
367	Toxaphene # (T3 based on Keplinger 1963 study)	8001-35-2	29.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
368	Dinitrotoluene * #(T3)	25321-14-6	6.70	4.00	3.00	1.25	1.00	3.75	2.50	1.00
369	Diethyleneglycol dinitrate R	693-21-0	0.31	5.00	4.00	0.00	4.00	0.00	0.00	2.50
370	Methylene chloride	75-09-2	6900.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
371	Styrene	100-42-5	1100.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
372	Methyltrichlorosilane-E3*	75-79-6	15.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
373	Dimethyl dichlorosilane T3	75-78-5	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
374	Tetranitromethane	509-14-8	1.70	4.00	1.00	3.75	4.00	0.00	1.88	2.50
375	Ethylene T3	74-85-1	15000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
376	2-Butoxyethanol #(T3)	111-76-2	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
377	2-Ethoxyethanol #(T3)	110-80-5	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
378	2-Ethoxyethyl acetate #(T3)	111-15-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
379	Diisobutyl ketone #(T3)	108-83-8	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
380	Methyl isobutyl carbinol #(I)	108-11-2	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
381	n-Butyl glycidyl ether #(T3)	2426-08-6	250.00	2.00	1.00	3.75	1.00	3.75	3.75	2.50
382	Nitrogen trifluoride #(T3)	7783-54-2	800.00	2.00	3.00	1.25	3.00	1.25	1.25	5.00
383	o-Dichlorobenzene #(T3)	95-50-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
384	Triethyl phosphite-T3*	122-52-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
385	5-Methyl 3-heptanone #(I)	541-85-5	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
386	Trypan blue #(T3)	72-57-1	14.02	3.00	0.00	5.00	2.00	2.50	3.75	1.00
387	Butyltrichlorosilane SC	7521-80-4	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
388	Octyltrichlorosilane-A3* (60min	5283-66-9	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
389	Aluminum phosphide *T3	20859-73-8	8.44	4.00	2.00	2.50	4.00	0.00	1.25	1.00
390	Thioglycol TEEL-3	60-24-2	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
391	p-Nitroaniline * #(T3)	100-01-6	53.10	3.00	2.00	2.50	1.00	3.75	3.13	1.00
392	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	76-11-9	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
393	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	76-12-0	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
394	Profenofos #(I)	41198-08-7	1600.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
395	Allyl chloride	107-05-1	140.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
396	Carbon disulfide	75-15-0	480.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
397	Ethyl silicate #(E3)	78-10-4	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
398	Hexachloroethane #(T3)	67-72-1	300.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
399	Isopropylamine #(T3)	75-31-0	750.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
400	2,4,5-T * #(T3)	93-76-5	23.92	3.00	0.00	5.00	0.00	5.00	5.00	1.00
401	ANTU * #(T3)	86-88-4	12.10	3.00	0.00	5.00	0.00	5.00	5.00	1.00
402	Benzoyl peroxide* #(T3)	94-36-0	50.47	3.00	4.00	0.00	4.00	0.00	0.00	1.00
403	Bromodiolone (Rat Inh. LC50)	54149-17-6	23.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
361	Phenyl glycidyl ether #(I)	11.63	7.00	0.00	10.00	2.00	2.00	0.00	13.63
362	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	9.50	12.00	1.00	15.00	3.00	4.00	0.00	13.50
363	Tetrachloroethylene	9.50	17.00	1.00	43.00	3.00	4.00	0.00	13.50
364	Dioxane	9.00	12.00	1.00	34.00	3.00	4.00	0.50	13.50
365	Acrylamide * #(T3)	9.50	14.00	1.00	48.00	3.00	4.00	0.00	13.50
366	DDT * #(T3)	12.00	2.00	0.00	3.00	1.00	1.00	0.50	13.50
367	Toxaphene #(T3 based on Keplinger 1963 study)	12.00	1.00	0.00	1.00	1.00	1.00	0.50	13.50
368	Dinitrotoluene * #(T3)	11.50	6.00	0.00	9.00	2.00	2.00	0.00	13.50
369	Diethylene glycol dinitrate R	12.50	2.00	0.00	4.00	1.00	1.00	0.00	13.50
370	Methylene chloride	6.88	21.00	2.00	83.00	4.00	6.00	0.50	13.38
371	Styrene	6.38	28.00	2.00	104.00	5.00	7.00	0.00	13.38
372	Methyltrichlorosilane-E3*	10.38	3.00	0.00	15.00	3.00	3.00	0.00	13.38
373	Dimethyl dichlorosilane T3	10.38	4.00	0.00	20.00	3.00	3.00	0.00	13.38
374	Tetranitromethane	12.38	1.00	0.00	1.00	1.00	1.00	0.00	13.38
375	Ethylene T3	6.25	20.00	2.00	173.00	5.00	7.00	0.00	13.25
376	2-Butoxyethanol #(T3)	10.25	1.00	0.00	43.00	3.00	3.00	0.00	13.25
377	2-Ethoxyethanol #(T3)	10.25	1.00	0.00	31.00	3.00	3.00	0.00	13.25
378	2-Ethoxyethyl acetate #(T3)	10.25	8.00	0.00	17.00	3.00	3.00	0.00	13.25
379	Diisobutyl ketone #(T3)	10.25	8.00	0.00	13.00	3.00	3.00	0.00	13.25
380	Methyl isobutyl carbinol #(I)	10.25	9.00	0.00	14.00	3.00	3.00	0.00	13.25
381	n-Butyl glycidyl ether #(T3)	10.25	7.00	0.00	13.00	3.00	3.00	0.00	13.25
382	Nitrogen trifluoride #(T3)	10.25	7.00	0.00	16.00	3.00	3.00	0.00	13.25
383	o-Dichlorobenzene #(T3)	10.25	9.00	0.00	37.00	3.00	3.00	0.00	13.25
384	Triethyl phosphite-T3*	10.25	6.00	0.00	13.00	3.00	3.00	0.00	13.25
385	5-Methyl 3-heptanone #(I)	12.25	2.00	0.00	3.00	1.00	1.00	0.00	13.25
386	Trypan blue #(T3)	10.75	6.00	0.00	10.00	2.00	2.00	0.50	13.25
387	Butyltrichlorosilane SC	12.25	2.00	0.00	4.00	1.00	1.00	0.00	13.25
388	Octyltrichlorosilane-A3* (60min	12.25	3.00	0.00	5.00	1.00	1.00	0.00	13.25
389	Aluminum phosphide *T3	10.25	2.00	0.00	17.00	3.00	3.00	0.00	13.25
390	Thioglycol TEEL-3	9.63	6.00	0.00	17.00	3.00	3.00	0.50	13.13
391	p-Nitroaniline * #(T3)	10.13	5.00	0.00	47.00	3.00	3.00	0.00	13.13
392	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	12.00	2.00	0.00	3.00	1.00	1.00	0.00	13.00
393	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00
394	Profenofos #(I)	9.50	4.00	0.00	21.00	3.00	3.00	0.50	13.00
395	Allyl chloride	9.00	11.00	1.00	19.00	3.00	4.00	0.00	13.00
396	Carbon disulfide	9.00	16.00	1.00	45.00	3.00	4.00	0.00	13.00
397	Ethyl silicate #(E3)	9.00	10.00	1.00	39.00	3.00	4.00	0.00	13.00
398	Hexachloroethane #(T3)	10.00	3.00	0.00	15.00	3.00	3.00	0.00	13.00
399	Isopropylamine #(T3)	9.00	13.00	1.00	30.00	3.00	4.00	0.00	13.00
400	2,4,5-T * #(T3)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00
401	ANTU * #(T3)	12.00	3.00	0.00	3.00	1.00	1.00	0.00	13.00
402	Benzoyl peroxide* #(T3)	7.00	22.00	2.00	70.00	4.00	6.00	0.00	13.00
403	Bromodiolone (Rat Inh. LC50)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
404	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	300-76-5	12.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
405	Methoxychlor * #(T3)	72-43-5	35.37	3.00	0.00	5.00	0.00	5.00	5.00	1.00
406	Pindone * #(I)	83-26-1	10.62	3.00	0.00	5.00	0.00	5.00	5.00	1.00
407	Rotenone * #(T3)	83-79-4	30.99	3.00	0.00	5.00	0.00	5.00	5.00	1.00
408	Tetryl * #(T3)	479-45-8	42.57	3.00	0.00	5.00	0.00	5.00	5.00	1.00
409	Allylamine *T3	107-11-9	18.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
410	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	126-33-0	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
411	Carbonyl sulfide T3	463-58-1	125.00	2.00	1.00	3.75	4.00	0.00	1.88	5.00
412	1,1-Dimethylhydrazine	57-14-7	11.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
413	Aqua Regia *T3	8007-56-5	35.01	3.00	1.00	3.75	0.00	5.00	4.38	2.50
414	Hexachlorobenzene	118-74-1	17.17	3.00	1.00	3.75	0.00	5.00	4.38	1.00
415	p-Dichlorobenzene #(T3)	106-46-7	150.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
416	Propylene oxide	75-56-9	870.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
417	Trichlorosilane-E3*	10025-78-2	25.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
418	Aluminum bromide, anhydrous as AlCl3	7727-15-3	44.84	3.00	2.00	2.50	0.00	5.00	3.75	1.00
419	Diglycidyl ether #(T3)	2238-07-5	10.00	4.00	4.00	0.00	2.00	2.50	1.25	2.50
420	Ethyleneimine	151-56-4	9.90	4.00	3.00	1.25	3.00	1.25	1.25	2.50
421	Tetramethyl succinonitrile #(I)	3333-52-6	5.00	4.00	0.00	5.00	2.00	2.50	3.75	1.00
422	Tetramethyllead-T3*	75-74-1	4.57	4.00	3.00	1.25	3.00	1.25	1.25	2.50
423	Diisopropylamine #(T3)	108-18-9	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
424	Isophorone #(T3)	78-59-1	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
425	n-Butylamine #(T3)	109-73-9	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
426	Octane #(T3)	111-65-9	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
427	Propylene dichloride #(T3)	78-87-5	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
428	Hydrazine	302-01-2	35.00	3.00	3.00	1.25	4.00	0.00	0.63	2.50
429	Methyl thiocyanate-T3*	1556-64-9	28.40	3.00	1.00	3.75	2.00	2.50	3.13	2.50
430	Dodecyltrichlorosilane Sc	4484-72-41	33.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
431	Bromine pentafluoride T3	7789-30-2	35.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
432	Bromine trifluoride T3	7787-71-5	89.30	3.00	3.00	1.25	0.00	5.00	3.13	2.50
433	Ethane T3	74-84-0	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
434	Azinphos-ethyl *T3	2642-71-9	10.63	3.00	0.00	5.00	0.00	5.00	5.00	1.00
435	Decaborane * #(T3)	17702-41-9	3.00	4.00	2.00	2.50	2.00	2.50	2.50	1.00
436	Trichloroethylene	79-01-6	3800.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
437	Ethyl ether #(T3)	60-29-7	1900.00	1.00	1.00	3.75	4.00	0.00	1.88	2.50
438	Ammonium sulfamate * #(T3)	7773-06-0	107.10	2.00	0.00	5.00	1.00	3.75	4.38	1.00
439	Ethyl acrylate	140-88-5	240.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
440	Methyl acrylate #(T3)	96-33-3	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
441	Methyl methacrylate	80-62-6	570.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
442	Acetyl Chloride *T3	75-36-5	125.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
443	Vinyl acetate monomer-E3*	108-05-4	500.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
444	Chlorinated camphene * #(T3)	8001-35-2	11.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00
445	Crotonaldehyde	4170-30-3	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
446	Terphenyls * #(I)	92-06-8; 84-15-1; 92-94-4	53.08	3.00	0.00	5.00	1.00	3.75	4.38	1.00
447	Diacetone alcohol #(T3)	123-42-2	1800.00	1.00	0.00	5.00	2.00	2.50	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
404	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	12.00	3.00	0.00	4.00	1.00	1.00	0.00	13.00
405	Methoxychlor *(T3)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00
406	Pindone *(I)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00
407	Rotenone *(T3)	12.00	2.00	0.00	2.00	1.00	1.00	0.00	13.00
408	Tetryl *(T3)	12.00	1.00	0.00	1.00	1.00	1.00	0.00	13.00
409	Allylamine *T3	11.00	5.00	0.00	9.00	2.00	2.00	0.00	13.00
410	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	10.88	5.00	0.00	10.00	2.00	2.00	0.00	12.88
411	Carbonyl sulfide T3	10.88	2.00	0.00	10.00	2.00	2.00	0.00	12.88
412	1,1-Dimethylhydrazine	10.38	7.00	0.00	9.00	2.00	2.00	0.50	12.88
413	Aqua Regia *T3	12.88	0.00	0.00	0.00	0.00	0.00	0.00	12.88
414	Hexachlorobenzene	11.38	1.00	0.00	2.00	1.00	1.00	0.50	12.88
415	p-Dichlorobenzene #(T3)	8.75	10.00	1.00	38.00	3.00	4.00	0.00	12.75
416	Propylene oxide	7.75	16.00	1.00	54.00	4.00	5.00	0.00	12.75
417	Trichlorosilane-E3*	9.75	4.00	0.00	15.00	3.00	3.00	0.00	12.75
418	Aluminum bromide, anhydrous as AlCl3	10.75	2.00	0.00	6.00	2.00	2.00	0.00	12.75
419	Diglycidyl ether #(T3)	11.75	1.00	0.00	1.00	1.00	1.00	0.00	12.75
420	Ethyleneimine	11.75	3.00	0.00	3.00	1.00	1.00	0.00	12.75
421	Tetramethyl succinonitrile #(I)	12.75	0.00	0.00	0.00	0.00	0.00	0.00	12.75
422	Tetramethyllead-T3*	11.75	2.00	0.00	2.00	1.00	1.00	0.00	12.75
423	Diisopropylamine *(T3)	9.63	6.00	0.00	18.00	3.00	3.00	0.00	12.63
424	Isophorone *(T3)	9.63	7.00	0.00	13.00	3.00	3.00	0.00	12.63
425	n-Butylamine *(T3)	9.63	8.00	0.00	19.00	3.00	3.00	0.00	12.63
426	Octane *(T3)	9.63	8.00	0.00	15.00	3.00	3.00	0.00	12.63
427	Propylene dichloride #(T3)	9.63	9.00	0.00	16.00	3.00	3.00	0.00	12.63
428	Hydrazine	9.13	9.00	0.00	12.00	3.00	3.00	0.50	12.63
429	Methyl thiocyanate-T3*	11.63	1.00	0.00	2.00	1.00	1.00	0.00	12.63
430	Dodecyltrichlorosilane Sc	11.63	1.00	0.00	3.00	1.00	1.00	0.00	12.63
431	Bromine pentafluoride T3	11.63	1.00	0.00	3.00	1.00	1.00	0.00	12.63
432	Bromine trifluoride T3	11.63	2.00	0.00	2.00	1.00	1.00	0.00	12.63
433	Ethane T3	7.50	28.00	2.00	33.00	3.00	5.00	0.00	12.50
434	Azinphos-ethyl *T3	12.00	0.00	0.00	0.00	0.00	0.00	0.50	12.50
435	Decaborane *(T3)	11.50	2.00	0.00	1.00	1.00	1.00	0.00	12.50
436	Trichloroethylene	6.88	17.00	1.00	55.00	4.00	5.00	0.50	12.38
437	Ethyl ether *(T3)	6.38	20.00	2.00	57.00	4.00	6.00	0.00	12.38
438	Ammonium sulfamate *(T3)	9.38	8.00	0.00	14.00	3.00	3.00	0.00	12.38
439	Ethyl acrylate	8.38	16.00	1.00	40.00	3.00	4.00	0.00	12.38
440	Methyl acrylate *(T3)	8.38	16.00	1.00	46.00	3.00	4.00	0.00	12.38
441	Methyl methacrylate	8.38	17.00	1.00	48.00	3.00	4.00	0.00	12.38
442	Acetyl Chloride *T3	8.38	10.00	1.00	37.00	3.00	4.00	0.00	12.38
443	Vinyl acetate monomer-E3*	8.38	4.00	0.00	53.00	4.00	4.00	0.00	12.38
444	Chlorinated camphene *(T3)	11.38	1.00	0.00	1.00	1.00	1.00	0.00	12.38
445	Crotonaldehyde	10.38	6.00	0.00	9.00	2.00	2.00	0.00	12.38
446	Terphenyls *(I)	11.38	4.00	0.00	5.00	1.00	1.00	0.00	12.38
447	Diacetone alcohol *(T3)	8.25	11.00	1.00	30.00	3.00	4.00	0.00	12.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
448	1,2-dimethylimidazole LD50	1739-84-0	417.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
449	Tetrahydrofuran #(T3)	109-99-9	5000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
450	Ethyl bromide #(T3)	74-96-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
451	Dichlorotetrafluoroethane #(T3)	76-14-2	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
452	Trifluorobromomethane #(T3)	75-63-8	40000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
453	Graphite #(T3)	7782-42-5	1017.90	1.00	0.00	5.00	0.00	5.00	5.00	1.00
454	n-Pentane #(T3)	109-66-0	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50
455	Trimethyl phosphite-T3*	121-45-9	750.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
456	Ethylene glycol dinitrite #(I)	628-96-6	12.06	3.00	0.00	5.00	4.00	0.00	2.50	2.50
457	Ronnel #(I)	299-84-3	22.81	3.00	0.00	5.00	0.00	5.00	5.00	1.00
458	Propyltrichlorosilane-A3* (60 min	141-57-1	33.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
459	Hexyltrichlorosilane T3	928-65-4	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
460	Octadecyltrichlorosilane-A3* (60min	112-04-9	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
461	Ethyl nitrite T3	109-95-5	60.00	3.00	4.00	0.00	4.00	0.00	0.00	5.00
462	Chlorobromomethane #(T3)	74-97-5	2000.00	1.00	0.00	5.00	1.00	3.75	4.38	2.50
463	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8003-34-7	326.87	2.00	0.00	5.00	1.00	3.75	4.38	2.50
464	Lithium nitride-T3*	26134-62-3	7.02	4.00	2.00	2.50	3.00	1.25	1.88	1.00
465	Acetaldehyde	75-07-0	840.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
466	Dipropylene glycol methyl ether #(T3)	34590-94-8	400.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
467	Methyl Cellosolve (r) acetate #(I)	110-49-6	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
468	n-Hexane	110-54-3	8600.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
469	Isopropyl acetate #(T3)	108-21-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
470	n-Propyl acetate #(I)	109-60-4	1700.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
471	sec-Butyl alcohol #(T3)	78-92-2	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
472	tert-Butyl alcohol #(T3)	75-65-0	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
473	Glycidol #(I)	556-52-5	150.00	2.00	2.00	2.50	1.00	3.75	3.13	2.50
474	n-Butyl mercaptan #(T3)	109-79-5	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
475	Turpentine #(T3)	8006-64-2	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
476	Isobutyronitrile-E3*	78-82-0	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
477	Germane T3	7782-65-2	150.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
478	Methyl chloride	74-87-3	3000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
479	1-Butene T3	106-98-9	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
480	2-Butene T3	107-01-7	300.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
481	Trinitrotoluene	118-96-7	55.32	3.00	4.00	0.00	4.00	0.00	0.00	1.00
482	Tetramethylsilane-T3*	75-76-3	125.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
483	Trimethylchlorosilane-E3*	75-77-44	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
484	2-Nitropropane #(T3)	79-46-9	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
485	Furan T3	110-00-9	19.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
486	Crotonaldehyde, (E)- T3	123-73-9	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
487	Allyltrichlorosilane, stabilized as allyl chloride	107-37-9	20.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
488	Methacrylonitrile-T3*	126-98-7	25.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
489	Cyclopentadiene #(I)	542-92-7	750.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
490	Ethyl butyl ketone #(T3)	106-35-4	1000.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
491	Methylcyclohexanol #(I)	25639-42-3	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
492	o-Methylcyclohexanone #(T3)	583-60-8	600.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
448	1,2-dimethylimidazole LD50	8.75	5.00	0.00	11.00	3.00	3.00	0.50	12.25
449	Tetrahydrofuran #(T3)	5.63	21.00	2.00	65.00	4.00	6.00	0.50	12.13
450	Ethyl bromide #(T3)	7.63	10.00	1.00	37.00	3.00	4.00	0.50	12.13
451	Dichlorotetrafluoroethane #(T3)	10.00	6.00	0.00	6.00	2.00	2.00	0.00	12.00
452	Trifluorobromomethane #(T3)	10.00	7.00	0.00	9.00	2.00	2.00	0.00	12.00
453	Graphite #(T3)	8.00	16.00	1.00	43.00	3.00	4.00	0.00	12.00
454	n-Pentane #(T3)	7.00	20.00	2.00	47.00	3.00	5.00	0.00	12.00
455	Trimethyl phosphite-T3*	9.00	4.00	0.00	18.00	3.00	3.00	0.00	12.00
456	Ethylene glycol dinitrite #(I)	11.00	3.00	0.00	3.00	1.00	1.00	0.00	12.00
457	Ronnel #(I)	12.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
458	Propyltrichlorosilane-A3* (60 min	11.00	2.00	0.00	5.00	1.00	1.00	0.00	12.00
459	Hexyltrichlorosilane T3	11.00	2.00	0.00	3.00	1.00	1.00	0.00	12.00
460	Octadecyltrichlorosilane-A3* (60min	11.00	2.00	0.00	5.00	1.00	1.00	0.00	12.00
461	Ethyl nitrite T3	11.00	1.00	0.00	1.00	1.00	1.00	0.00	12.00
462	Chlorobromomethane #(T3)	8.88	7.00	0.00	11.00	3.00	3.00	0.00	11.88
463	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	10.88	4.00	0.00	4.00	1.00	1.00	0.00	11.88
464	Lithium nitride-T3*	10.88	1.00	0.00	5.00	1.00	1.00	0.00	11.88
465	Acetaldehyde	7.75	15.00	1.00	49.00	3.00	4.00	0.00	11.75
466	Dipropylene glycol methyl ether #(T3)	8.75	7.00	0.00	35.00	3.00	3.00	0.00	11.75
467	Methyl Cellosolve (r) acetate #(I)	8.75	6.00	0.00	12.00	3.00	3.00	0.00	11.75
468	n-Hexane	5.63	23.00	2.00	78.00	4.00	6.00	0.00	11.63
469	Isopropyl acetate #(T3)	7.63	14.00	1.00	41.00	3.00	4.00	0.00	11.63
470	n-Propyl acetate #(I)	7.63	12.00	1.00	31.00	3.00	4.00	0.00	11.63
471	sec-Butyl alcohol #(T3)	7.63	12.00	1.00	24.00	3.00	4.00	0.00	11.63
472	tert-Butyl alcohol #(T3)	7.63	13.00	1.00	37.00	3.00	4.00	0.00	11.63
473	Glycidol #(I)	9.63	4.00	0.00	6.00	2.00	2.00	0.00	11.63
474	n-Butyl mercaptan #(T3)	9.63	4.00	0.00	6.00	2.00	2.00	0.00	11.63
475	Turpentine #(T3)	9.63	6.00	0.00	9.00	2.00	2.00	0.00	11.63
476	Isobutyronitrile-E3*	9.63	3.00	0.00	6.00	2.00	2.00	0.00	11.63
477	Germane T3	9.63	2.00	0.00	6.00	2.00	2.00	0.00	11.63
478	Methyl chloride	7.50	17.00	1.00	46.00	3.00	4.00	0.00	11.50
479	1-Butene T3	7.50	15.00	1.00	50.00	3.00	4.00	0.00	11.50
480	2-Butene T3	11.50	1.00	0.00	0.00	0.00	0.00	0.00	11.50
481	Trinitrotoluene	7.00	11.00	1.00	17.00	3.00	4.00	0.50	11.50
482	Tetramethylsilane-T3*	8.38	6.00	0.00	15.00	3.00	3.00	0.00	11.38
483	Trimethylchlorosilane-E3*	8.38		0.00	30.00	3.00	3.00	0.00	11.38
484	2-Nitropropane #(T3)	10.38	2.00	0.00	4.00	1.00	1.00	0.00	11.38
485	Furan T3	10.38	3.00	0.00	5.00	1.00	1.00	0.00	11.38
486	Crotonaldehyde, (E)- T3	10.38	1.00	0.00	2.00	1.00	1.00	0.00	11.38
487	Allyltrichlorosilane, stabilized as allyl chloride	10.38	1.00	0.00	3.00	1.00	1.00	0.00	11.38
488	Methacrylonitrile-T3*	10.38	1.00	0.00	1.00	1.00	1.00	0.00	11.38
489	Cyclopentadiene #(I)	10.25	2.00	0.00	2.00	1.00	1.00	0.00	11.25
490	Ethyl butyl ketone #(T3)	10.25	2.00	0.00	4.00	1.00	1.00	0.00	11.25
491	Methylcyclohexanol #(I)	10.25	1.00	0.00	1.00	1.00	1.00	0.00	11.25
492	o-Methylcyclohexanone #(T3)	10.25	4.00	0.00	5.00	1.00	1.00	0.00	11.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
493	Magnesium phosphide- Rentokil MSDS*	12057-74-8	2.40	4.00	2.00	2.50	4.00	0.00	1.25	1.00
494	Pentaerythrite tetrinitrate #(T3)	78-11-5	38.97	3.00	4.00	0.00	3.00	1.25	0.63	1.00
495	Dichloromonofluoromethane #(T3)	75-43-4	5000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
496	Isopropyl ether #(T3)	108-20-3	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
497	beta-Chloroprene #(T3)	126-99-8	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
498	Methyl chloroform	71-55-6	4200.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
499	Vinyl chloride-T3*	75-01-4	20000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
500	Methyl ether-T3*	115-10-6	60000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
501	Diffluoroethane T3	75-37-6	75000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
502	Isoflurane #(IDLH of halogenated ethers-general)	26675-46-7	2000.00	1.00	1.00	3.75	1.00	3.75	3.75	2.50
503	Vinylidene chloride, inhibited-T3'	75-35-4	600.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
504	Propylene imine	75-55-8	23.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
505	2-Butanone	78-93-3	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
506	2-Pentanone #(T3)	107-87-9	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
507	Cyclohexene #(T3)	110-83-8	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
508	Ethyl formate #(I)	109-94-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
509	Methylcyclohexane #(T3)	108-87-2	1200.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
510	Nitromethane #(T3)	75-52-5	750.00	2.00	4.00	0.00	3.00	1.25	0.63	2.50
511	sec-Amyl acetate #(T3)	626-38-0	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
512	Trifluorochloroethylene-E3*	79-38-9	300.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
513	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	18810-58-7	1.38	4.00	3.00	1.25	4.00	0.00	0.63	1.00
514	Ethyl chloride #(T3)	75-00-3	3800.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
515	Difluorodibromomethane #(I)	75-61-6	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
516	Ammonium perchlorate T3	7790-98-9	104.05	2.00	4.00	0.00	0.00	5.00	2.50	1.00
517	1,3- pentadiene-R*B97	504-60-9	280.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
518	1-Chloro-1-nitropropane #(I)	600-25-9	100.00	3.00	3.00	1.25	2.00	2.50	1.88	2.50
519	sec Hexyl acetate #(I)	108-84-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
520	Lithium #(T3)	7439-93-2	1409.20	1.00	2.00	2.50	2.00	2.50	2.50	1.00
521	tert-Butyl acetate #(T3)	540-88-5	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50
522	Vinyl toluene #(I)	25013-15-4	400.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
523	Amyltrichlorosilane R	107-72-2	500.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
524	Thiodiglycol-Alfa MSDS*B71	111-48-8	4150.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
525	2-methylpropene-T3*	115-11-7	100000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
526	Cominaine (R-2-ethylpiperidine) #(T3 as piperidine)	22160-08-3	110.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
527	Nitroethane #(T3)	79-24-3	1000.00	2.00	3.00	1.25	3.00	1.25	1.25	2.50
528	Acetyl Iodide (as acetyl bromide) T3	507-02-8	20.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
529	Methyl acetate #(I)	79-20-9	3100.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
530	Silane-T3*	7803-62-5	4000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
531	2-Butene-trans T3	624-64-6	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
532	2-Butene-cis T3	590-18-1	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
533	Morpholine #(T3)	110-91-8	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	1.00
534	1,2-Dichloroethylene #(T3)	540-59-0	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
535	1-Nitropropane #(I)	108-03-2	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
493	Magnesium phosphide- Rentokil MSDS*	10.25	2.00	0.00	5.00	1.00	1.00	0.00	11.25
494	Pentaerythrite tetrinitrate #(T3)	7.63	9.00	0.00	12.00	3.00	3.00	0.50	11.13
495	Dichloromonofluoromethane #(T3)	10.00	3.00	0.00	5.00	1.00	1.00	0.00	11.00
496	Isopropyl ether #(T3)	7.00	15.00	1.00	24.00	3.00	4.00	0.00	11.00
497	beta-Chloroprene #(T3)	9.00	4.00	0.00	6.00	2.00	2.00	0.00	11.00
498	Methyl chloroform	6.88	14.00	1.00	20.00	3.00	4.00	0.00	10.88
499	Vinyl chloride-T3*	6.88	6.00	0.00	63.00	4.00	4.00	0.00	10.88
500	Methyl ether-T3*	6.88	15.00	1.00	27.00	3.00	4.00	0.00	10.88
501	Diffluoroethane T3	6.88	14.00	1.00	15.00	3.00	4.00	0.00	10.88
502	Isoflurane #(IDLH of halogenated ethers-general)	8.25	2.00	0.00	8.00	2.00	2.00	0.50	10.75
503	Vinylidene chloride, inhibited-T3*	7.75	2.00	0.00	12.00	3.00	3.00	0.00	10.75
504	Propylene imine	9.75	3.00	0.00	4.00	1.00	1.00	0.00	10.75
505	2-Butanone	5.63	18.00	1.00	63.00	4.00	5.00	0.00	10.63
506	2-Pentanone #(T3)	7.63	8.00	0.00	13.00	3.00	3.00	0.00	10.63
507	Cyclohexene #(T3)	7.63	9.00	0.00	14.00	3.00	3.00	0.00	10.63
508	Ethyl formate #(I)	7.63	6.00	0.00	16.00	3.00	3.00	0.00	10.63
509	Methylcyclohexane #(T3)	7.63	9.00	0.00	17.00	3.00	3.00	0.00	10.63
510	Nitromethane #(T3)	7.13	7.00	0.00	20.00	3.00	3.00	0.50	10.63
511	sec-Amyl acetate #(T3)	9.63	2.00	0.00	2.00	1.00	1.00	0.00	10.63
512	Trifluorochloroethylene-E3*	9.63	1.00	0.00	5.00	1.00	1.00	0.00	10.63
513	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	9.63	1.00	0.00	3.00	1.00	1.00	0.00	10.63
514	Ethyl chloride #(T3)	7.50	8.00	0.00	21.00	3.00	3.00	0.00	10.50
515	Difluorodibromomethane #(I)	9.50	2.00	0.00	3.00	1.00	1.00	0.00	10.50
516	Ammonium perchlorate T3	7.50	2.00	0.00	16.00	3.00	3.00	0.00	10.50
517	1,3- pentadiene-R*B97	8.38	7.00	0.00	10.00	2.00	2.00	0.00	10.38
518	1-Chloro-1-nitropropane #(I)	10.38	2.00	0.00	0.00	0.00	0.00	0.00	10.38
519	sec Hexyl acetate #(I)	10.25	0.00	0.00	0.00	0.00	0.00	0.00	10.25
520	Lithium #(T3)	5.50	11.00	1.00	23.00	3.00	4.00	0.50	10.00
521	tert-Butyl acetate #(T3)	7.00	6.00	0.00	17.00	3.00	3.00	0.00	10.00
522	Vinyl toluene #(I)	9.00	1.00	0.00	3.00	1.00	1.00	0.00	10.00
523	Amyltrichlorosilane R	9.00	1.00	0.00	2.00	1.00	1.00	0.00	10.00
524	Thiodiglycol-Alfa MSDS*B71	6.88	9.00	0.00	12.00	3.00	3.00	0.00	9.88
525	2-methylpropene-T3*	6.88	3.00	0.00	40.00	3.00	3.00	0.00	9.88
526	Comioline (R-2-ethylpiperidine) #(T3 as piperidine)	9.38	0.00	0.00	0.00	0.00	0.00	0.50	9.88
527	Nitroethane #(T3)	7.75	3.00	0.00	8.00	2.00	2.00	0.00	9.75
528	Acetyl Iodide (as acetyl bromide) T3	9.75	0.00	0.00	0.00	0.00	0.00	0.00	9.75
529	Methyl acetate #(I)	5.63	15.00	1.00	33.00	3.00	4.00	0.00	9.63
530	Silane-T3*	5.63	16.00	1.00	30.00	3.00	4.00	0.00	9.63
531	2-Butene-trans T3	7.50	1.00	0.00	6.00	2.00	2.00	0.00	9.50
532	2-Butene-cis T3	7.50	1.00	0.00	8.00	2.00	2.00	0.00	9.50
533	Morpholine #(T3)	5.50	12.00	1.00	32.00	3.00	4.00	0.00	9.50
534	1,2-Dichloroethylene #(T3)	8.38	2.00	0.00	2.00	1.00	1.00	0.00	9.38
535	1-Nitropropane #(I)	8.38	3.00	0.00	4.00	1.00	1.00	0.00	9.38

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
536	Ethyl mercaptan	75-08-1	360.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
537	Isopropyl glycidyl ether #(I)	4016-14-2	400.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
538	Trinitrochlorobenzene-T3*	88-88-0	24.69	3.00	3.00	1.25	3.00	1.25	1.25	1.00
539	Methylal #(T3)	109-87-5	2200.00	0.00	1.00	3.75	3.00	1.25	2.50	2.50
540	Isopentane-T3*	78-78-4	20000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
541	Mesityl oxide #(T3)	141-79-7	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
542	Dinitrophenol, Dry or wet T3	25550-58-7 (51-28-5)	3.32	4.00	4.00	0.00	4.00	0.00	0.00	1.00
543	2-Hexanone #(T3)	591-78-6	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
544	sec-Butyl acetate #(T3)	105-46-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
545	Ammonium Picrate T3	131-74-8	24.83	3.00	3.00	1.25	4.00	0.00	0.63	1.00
546	HMX T3	2691-41-0	41.28	3.00	3.00	1.25	4.00	0.00	0.63	1.00
547	Dimethylpropane, 2,2- T3	463-82-1	50000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
548	Cyclopropane T3	75-19-4	60000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
549	Methyldichlorosilane-R*	75-54-7	1200.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
550	Vinyltrichlorosilane-R*	75-94-5	2000.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
551	Propadiene-T3*	463-49-0	4000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
552	Vinylidene fluoride-T3*	75-38-7	12500.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
553	Methoxyflurane #(IDLH of halogenated ethers-general)	76-38-0	2000.00	1.00	0.00	5.00	2.00	2.50	3.75	1.00
554	Methyl formate #(T3)	107-31-3	4500.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
555	Isopropyl chloride-T3*	75-29-6	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
556	Vinyl ethyl ether-T3*	109-92-2	1500.00	1.00	2.00	2.50	4.00	0.00	1.25	2.50
557	Tetrafluoroethylene-E3*	116-14-3	10000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
558	Vinyl fluoride-T3*	75-02-5	150000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
559	Vinyl methyl ether-R*	107-25-5	64000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
560	Methyl acetylene #(T3)	74-99-7	1700.00	1.00	3.00	1.25	4.00	0.00	0.63	2.50
561	Isoprene-T3*	78-79-5	25000.00	0.00	2.00	2.50	4.00	0.00	1.25	2.50
562	1,1-Dichloroethane #(T3)	75-34-3	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
563	Ethyl acetylene (as ethylene)	107-00-6	15000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
564	2-Chloropropylene T3	557-98-2	35000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
565	n-Propyl nitrate #(T3)	627-13-4	1160.00	1.00	3.00	1.25	3.00	1.25	1.25	2.50
566	1-Chloropropylene R	590-21-6	8000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
567	1-pentene-T3*	109-67-1	30000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
568	2-Methyl-1-butene-T3*	563-46-2	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
569	Diethylchlorosilane R	1719-53-5	4668.58	0.00	2.00	2.50	3.00	1.25	1.88	2.50
570	Vinyl acetylene-R*	689-97-4	105000.00	0.00	3.00	1.25	4.00	0.00	0.63	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score	Relative Probability Score	Threat Scores	
536	Ethyl mercaptan	8.38	4.00	0.00	5.00	1.00	1.00	0.00	9.38
537	Isopropyl glycidyl ether #(I)	8.38	1.00	0.00	1.00	1.00	1.00	0.00	9.38
538	Trinitrochlorobenzene-T3*	8.25	1.00	0.00	1.00	1.00	1.00	0.00	9.25
539	Methylal #(T3)	5.00	10.00	1.00	13.00	3.00	4.00	0.00	9.00
540	Isopentane-T3*	5.00	17.00	1.00	29.00	3.00	4.00	0.00	9.00
541	Mesityl oxide #(T3)	7.00	5.00	0.00	6.00	2.00	2.00	0.00	9.00
542	Dinitrophenol, Dry or wet T3	9.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00
543	2-Hexanone #(T3)	7.63	2.00	0.00	3.00	1.00	1.00	0.00	8.63
544	sec-Butyl acetate #(T3)	7.63	2.00	0.00	2.00	1.00	1.00	0.00	8.63
545	Ammonium Picrate T3	7.63	1.00	0.00	1.00	1.00	1.00	0.00	8.63
546	HMX T3	7.63	1.00	0.00	2.00	1.00	1.00	0.00	8.63
547	Dimethylpropane, 2,2- T3	7.50	1.00	0.00	4.00	1.00	1.00	0.00	8.50
548	Cyclopropane T3	7.50	1.00	0.00	3.00	1.00	1.00	0.00	8.50
549	Methyldichlorosilane-R*	6.38	2.00	0.00	9.00	2.00	2.00	0.00	8.38
550	Vinyltrichlorosilane-R*	6.38	3.00	0.00	8.00	2.00	2.00	0.00	8.38
551	Propadiene-T3*	6.25	3.00	0.00	6.00	2.00	2.00	0.00	8.25
552	Vinylidene fluoride-T3*	6.25	2.00	0.00	8.00	2.00	2.00	0.00	8.25
553	Methoxyflurane #(IDLH of halogenated ethers-general)	6.75	1.00	0.00	3.00	1.00	1.00	0.50	8.25
554	Methyl formate #(T3)	5.00	8.00	0.00	16.00	3.00	3.00	0.00	8.00
555	Isopropyl chloride-T3*	5.00	1.00	0.00	13.00	3.00	3.00	0.00	8.00
556	Vinyl ethyl ether-T3*	5.75	3.00	0.00	8.00	2.00	2.00	0.00	7.75
557	Tetrafluoroethylene-E3*	5.63	3.00	0.00	6.00	2.00	2.00	0.00	7.63
558	Vinyl fluoride-T3*	6.25	1.00	0.00	2.00	1.00	1.00	0.00	7.25
559	Vinyl methyl ether-R*	6.25	1.00	0.00	3.00	1.00	1.00	0.00	7.25
560	Methyl acetylene #(T3)	5.13	4.00	0.00	7.00	2.00	2.00	0.00	7.13
561	Isoprene-T3*	3.75	6.00	0.00	17.00	3.00	3.00	0.00	6.75
562	1,1-Dichloroethane #(T3)	5.63	3.00	0.00	3.00	1.00	1.00	0.00	6.63
563	Ethyl acetylene (as ethylene)	5.63	2.00	0.00	3.00	1.00	1.00	0.00	6.63
564	2-Chloropropylene T3	4.38	1.00	0.00	6.00	2.00	2.00	0.00	6.38
565	n-Propyl nitrate #(T3)	5.75	0.00	0.00	0.00	0.00	0.00	0.00	5.75
566	1-Chloropropylene R	4.38	2.00	0.00	2.00	1.00	1.00	0.00	5.38
567	1-pentene-T3*	4.38	3.00	0.00	5.00	1.00	1.00	0.00	5.38
568	2-Methyl-1-butene-T3*	4.38	1.00	0.00	4.00	1.00	1.00	0.00	5.38
569	Diethylchlorosilane R	4.38	1.00	0.00	2.00	1.00	1.00	0.00	5.38
570	Vinyl acetylene-R*	3.13	1.00	0.00	1.00	1.00	1.00	0.00	4.13

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
1	Chlorine	7782-50-5	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
2	Hydrogen chloride	7647-01-0	100.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
3	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	25.00	3.00	0.00	5.00	2.00	2.50	3.75	5.00
4	Ammonia	7664-41-7	1100.00	1.00	0.00	5.00	1.00	3.75	4.38	5.00
5	Sulfuric acid	7664-93-9	7.47	4.00	2.00	2.50	0.00	5.00	3.75	2.50
6	Calcium Carbonate #(T3)	471-34-1	3.66	4.00	0.00	5.00	0.00	5.00	5.00	1.00
7	Nitric acid	7697-37-2	92.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
8	Hydrogen fluoride	7664-39-3	44.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
9	Sulfur dioxide	7446-09-5	30.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
10	Phosgene	75-44-5	0.75	5.00	1.00	3.75	0.00	5.00	4.38	5.00
11	Calcium chloride	10043-52-4	88.19	3.00	0.00	5.00	0.00	5.00	5.00	1.00
12	Isobutane-T3*	75-28-5	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
13	Hydrogen T3	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
14	Acetic acid #(T3)	64-19-7	250.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
15	Kerosene #(T3)	8008-20-6	57.53	3.00	0.00	5.00	2.00	2.50	3.75	2.50
16	Copper sulfate #(T3)	7758-98-7	3.92	4.00	0.00	5.00	0.00	5.00	5.00	1.00
17	Sodium Sulfate #(T3)	7757-82-6	21.52	3.00	0.00	5.00	0.00	5.00	5.00	1.00
18	Gypsum #(T3 as K ₂ CO ₃)	13397-24-5	88.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
19	Hydrogen bromide	10035-10-6	120.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
20	Nitric oxide #(I)	10102-43-9	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
21	Phosphoric acid *#(T3)	7664-38-2	124.70	2.00	0.00	5.00	0.00	5.00	5.00	1.00
22	Propylene-T3*	115-07-1	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
23	Hydrogen peroxide #(E3)	7722-84-1	100.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
24	OMPA	152-16-9	0.30	5.00	0.00	5.00	0.00	5.00	5.00	2.50
25	Propane	74-98-6	33000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
26	Diethylene glycol	111-46-6	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.00
27	Boron trifluoride *	7637-07-2	39.66	3.00	1.00	3.75	0.00	5.00	4.38	5.00
28	Ammonium nitrate, no organic coating T3	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00
29	Ammonium nitrate, with organic coating	6484-52-2	152.73	2.00	3.00	1.25	0.00	5.00	3.13	1.00
30	Dibasic sodium phosphate	10039-32-4	25.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
31	Silica #(T3)	7631-86-9	203.72	2.00	0.00	5.00	0.00	5.00	5.00	1.00
32	Sodium bicarbonate #(T3)	144-55-8	145.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
33	Sodium chloride #(T3)	7647-14-5	209.19	2.00	0.00	5.00	0.00	5.00	5.00	1.00
34	Sodium dodecyl sulfate #(T3)	151-21-3	42.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
35	Zinc	7440-66-6	74.79	3.00	0.00	5.00	0.00	5.00	5.00	1.00
36	Selenium hexafluoride	7783-79-1	0.26	5.00	0.00	5.00	0.00	5.00	5.00	5.00
37	Chloroacetyl chloride E3	79-04-9	10.00	4.00	1.00	3.75	3.00	1.25	2.50	2.50
38	Dibutyl phthalate *#(T3)	84-74-2	43.90	3.00	0.00	5.00	1.00	3.75	4.38	2.50
39	Ethyl alcohol #(T3)	64-17-5	3300.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
40	Acetylene *T3	74-86-2	6000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
41	Mercury	7439-97-6	1.08	4.00	0.00	5.00	0.00	5.00	5.00	2.50
42	Bromine	7726-95-6	8.50	4.00	0.00	5.00	0.00	5.00	5.00	2.50
43	Chlorine dioxide	10049-04-4	2.40	4.00	4.00	0.00	0.00	5.00	2.50	5.00
44	Oleum-E3*	8014-95-7	4.12	4.00	0.00	5.00	0.00	5.00	5.00	2.50
45	Calcium Hydroxide #(T3)	1305-62-0	165.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
1	Chlorine	13.00	63.00	5.00	344.00	5.00	10.00	23.00
2	Hydrogen chloride	12.38	63.00	5.00	528.00	5.00	10.00	22.38
3	Formaldehyde (Formalin solution-37% methanol) E3	11.75	53.00	5.00	260.00	5.00	10.00	21.75
4	Ammonia	10.38	56.00	5.00	348.00	5.00	10.00	20.38
5	Sulfuric acid	10.25	66.00	5.00	544.00	5.00	10.00	20.25
6	Calcium Carbonate #(T3)	10.00	52.00	5.00	309.00	5.00	10.00	20.00
7	Nitric acid	10.50	49.00	4.00	226.00	5.00	9.00	19.50
8	Hydrogen fluoride	12.38	25.00	2.00	138.00	5.00	7.00	19.38
9	Sulfur dioxide	13.00	27.00	2.00	79.00	4.00	6.00	19.00
10	Phosgene	14.38	10.00	1.00	22.00	3.00	4.00	18.38
11	Calcium chloride	9.00	43.00	4.00	208.00	5.00	9.00	18.00
12	Isobutane-T3*	7.50	68.00	5.00	409.00	5.00	10.00	17.50
13	Hydrogen T3	7.50	70.00	5.00	340.00	5.00	10.00	17.50
14	Acetic acid #(T3)	8.25	40.00	4.00	186.00	5.00	9.00	17.25
15	Kerosene #(T3)	9.25	35.00	3.00	102.00	5.00	8.00	17.25
16	Copper sulfate #(T3)	10.00	29.00	2.00	188.00	5.00	7.00	17.00
17	Sodium Sulfat #(T3)	9.00	36.00	3.00	200.00	5.00	8.00	17.00
18	Gypsum #(T3 as K ₂ CO ₃)	9.00	36.00	3.00	127.00	5.00	8.00	17.00
19	Hydrogen bromide	12.00	16.00	1.00	73.00	4.00	5.00	17.00
20	Nitric oxide #(I)	13.00	11.00	1.00	12.00	3.00	4.00	17.00
21	Phosphoric acid *#(T3)	8.00	49.00	4.00	245.00	5.00	9.00	17.00
22	Propylene-T3*	6.88	52.00	5.00	211.00	5.00	10.00	16.88
23	Hydrogen peroxide #(E3)	8.63	38.00	3.00	172.00	5.00	8.00	16.63
24	OMPA	12.50	11.00	1.00	22.00	3.00	4.00	16.50
25	Propane	7.50	42.00	4.00	142.00	5.00	9.00	16.50
26	Diethylene glycol	9.38	30.00	3.00	94.00	4.00	7.00	16.38
27	Boron trifluoride *	12.38	11.00	1.00	28.00	3.00	4.00	16.38
28	Ammonium nitrate, no organic coating T3	6.13	52.00	5.00	182.00	5.00	10.00	16.13
29	Ammonium nitrate, with organic coating	6.13	52.00	5.00	182.00	5.00	10.00	16.13
30	Dibasic sodium phosphate	9.00	22.00	2.00	125.00	5.00	7.00	16.00
31	Silica #(T3)	8.00	30.00	3.00	131.00	5.00	8.00	16.00
32	Sodium bicarbonate #(T3)	8.00	30.00	3.00	138.00	5.00	8.00	16.00
33	Sodium chloride #(T3)	8.00	38.00	3.00	175.00	5.00	8.00	16.00
34	Sodium dodecyl sulfate #(T3)	9.00	27.00	2.00	104.00	5.00	7.00	16.00
35	Zinc	9.00	31.00	3.00	90.00	4.00	7.00	16.00
36	Selenium hexafluoride	15.00	2.00	0.00	2.00	1.00	1.00	16.00
37	Chloroacetyl chloride E3	9.00	25.00	2.00	179.00	5.00	7.00	16.00
38	Dibutyl phthalate *#(T3)	9.88	27.00	2.00	88.00	4.00	6.00	15.88
39	Ethyl alcohol #(T3)	5.63	51.00	5.00	321.00	5.00	10.00	15.63
40	Acetylene *T3	5.63	93.00	5.00	253.00	5.00	10.00	15.63
41	Mercury	11.50	14.00	1.00	24.00	3.00	4.00	15.50
42	Bromine	11.50	12.00	1.00	50.00	3.00	4.00	15.50
43	Chlorine dioxide	11.50	14.00	1.00	33.00	3.00	4.00	15.50
44	Oleum-E3*	11.50	9.00	0.00	81.00	4.00	4.00	15.50
45	Calcium Hydroxide #(T3)	7.38	38.00	3.00	144.00	5.00	8.00	15.38

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
46	Methyl bromide	74-83-9	740.00	2.00	0.00	5.00	1.00	3.75	4.38	5.00
47	Potassium Hydroxide #(T3)	1310-58-3	65.36	3.00	1.00	3.75	0.00	5.00	4.38	1.00
48	Silver nitrate #(T3)	7761-88-8	2.17	4.00	1.00	3.75	0.00	5.00	4.38	1.00
49	Iron oxide #(T3)	1309-37-1	76.55	3.00	0.00	5.00	1.00	3.75	4.38	1.00
50	Phosphoryl Trichloride	10025-87-3	0.85	5.00	2.00	2.50	0.00	5.00	3.75	2.50
51	Ethanolamine #(T3)	141-43-5	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
52	Formic acid #(T3)	64-18-6	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
53	Phosphorus trichloride	7719-12-2	5.60	4.00	2.00	2.50	0.00	5.00	3.75	2.50
54	Chlorpyrifos #(T3)	2921-88-2	5.23	4.00	0.00	5.00	0.00	5.00	5.00	1.00
55	Magnesium Oxide #(T3)	1309-48-4	303.35	2.00	0.00	5.00	0.00	5.00	5.00	1.00
56	Sodium cyanide #(T3)	143-33-9	19.96	3.00	0.00	5.00	0.00	5.00	5.00	1.00
57	Sodium hydroxide #(E3)	1310-73-2	30.56	3.00	1.00	3.75	0.00	5.00	4.38	1.00
58	Carbendazim	10605-21-7	3.25	4.00	0.00	5.00	0.00	5.00	5.00	1.00
59	Cobalt dichloride #(T3)	7646-79-9	51.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
60	Cyanogen Chloride	460-19-5	10.00	4.00	0.00	5.00	0.00	5.00	5.00	5.00
61	Iodine #(E3)	7553-56-2	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
62	Nitrogen dioxide	10102-44-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
63	Fluorotrichloromethane #(T3)	75-69-4	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
64	Dichlorvos	62-73-7	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
65	Tetrafluoroboric acid #(T3)	16872-11-0	11.14	3.00	1.00	3.75	0.00	5.00	4.38	2.50
66	Sodium Nitrate #(T3)	7631-99-4	28.77	3.00	2.00	2.50	0.00	5.00	3.75	1.00
67	Sulfur tetrafluoride-T3*	7783-60-0	2.08	4.00	2.00	2.50	0.00	5.00	3.75	5.00
68	Tungsten hexafluoride-T3*	7783-82-6	32.84	3.00	2.00	2.50	0.00	5.00	3.75	5.00
69	Hexafluoroacetone E3	684-16-2	50.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
70	Silicon tetrafluoride-T3*	7783-61-1	100.00	3.00	2.00	2.50	0.00	5.00	3.75	5.00
71	Benzene	71-43-2	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
72	Ethyl acetate #(T3)	141-78-6	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
73	Methyl alcohol	67-56-1	7200.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
74	Toluene	108-88-3	4500.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
75	Ethylene oxide	75-21-8	200.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
76	Toluene-2,4-diisocyanate	584-84-9	0.51	5.00	2.00	2.50	1.00	3.75	3.13	2.50
77	Xylenes #(T3)	95-47-6	900.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
78	Carbon monoxide/Syngas	1333-74-0	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
79	Cypermethrin #I as in pyrethrum)	52315-07-8	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
80	Hydrogen sulfide	7783-06-4	50.00	3.00	0.00	5.00	4.00	0.00	2.50	5.00
81	Molybdophosphoric acid	51429-74-4	37.05	3.00	0.00	5.00	0.00	5.00	5.00	2.50
82	Fluorine	7782-41-4	13.00	3.00	4.00	0.00	0.00	5.00	2.50	5.00
83	Malathion * #(T3)	121-75-5	18.50	3.00	0.00	5.00	0.00	5.00	5.00	2.50
84	Butane T3	106-97-8	19000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
85	Ammonium Chloride	12125-02-9	228.00	2.00	1.00	3.75	0.00	5.00	4.38	1.00
86	Potassium dichromate #(T3)	7778-50-9	3.32	4.00	1.00	3.75	0.00	5.00	4.38	1.00
87	Barium nitrate *T3	10022-31-8	7.02	4.00	1.00	3.75	0.00	5.00	4.38	1.00
88	Imidacloprid #E3)	105827-78-9	2.03	4.00	0.00	5.00	1.00	3.75	4.38	1.00
89	Potassium nitrate #(T3)	7757-79-1	120.91	2.00	1.00	3.75	0.00	5.00	4.38	1.00
90	Phenyl etherbiphenyl mixture (vapor) #(I)	8004-13-5	10.00	4.00	0.00	5.00	1.00	3.75	4.38	5.00
91	Nitrosyl chloride-T3*	2696-92-6	2.50	4.00	1.00	3.75	0.00	5.00	4.38	5.00
92	Aniline	62-53-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
46	Methyl bromide	11.38	10.00	1.00	17.00	3.00	4.00	15.38
47	Potassium Hydroxide #(T3)	8.38	24.00	2.00	107.00	5.00	7.00	15.38
48	Silver nitrate #(T3)	9.38	22.00	2.00	80.00	4.00	6.00	15.38
49	Iron oxide #(T3)	8.38	27.00	2.00	141.00	5.00	7.00	15.38
50	Phosphoryl Trichloride	11.25	14.00	1.00	50.00	3.00	4.00	15.25
51	Ethanolamine #(T3)	9.25	20.00	2.00	72.00	4.00	6.00	15.25
52	Formic acid #(T3)	9.25	26.00	2.00	84.00	4.00	6.00	15.25
53	Phosphorus trichloride	10.25	11.00	1.00	57.00	4.00	5.00	15.25
54	Chlorpyrifos #(T3)	10.00	17.00	1.00	71.00	4.00	5.00	15.00
55	Magnesium Oxide #(T3)	8.00	28.00	2.00	134.00	5.00	7.00	15.00
56	Sodium cyanide #(T3)	9.00	21.00	2.00	52.00	4.00	6.00	15.00
57	Sodium hydroxide #(E3)	5.00	64.00	5.00	477.00	5.00	10.00	15.00
58	Carbendazim	10.00	16.00	1.00	62.00	4.00	5.00	15.00
59	Cobalt dichloride #(T3)	9.00	22.00	2.00	90.00	4.00	6.00	15.00
60	Cyanogen Chloride	14.00	2.00	0.00	3.00	1.00	1.00	15.00
61	Iodine #(E3)	10.00	19.00	1.00	80.00	4.00	5.00	15.00
62	Nitrogen dioxide	13.00	7.00	0.00	9.00	2.00	2.00	15.00
63	Fluorotrichloromethane #(T3)	11.00	12.00	1.00	18.00	3.00	4.00	15.00
64	Dichlorvos	9.88	12.00	1.00	52.00	4.00	5.00	14.88
65	Tetrafluoroboric acid #(T3)	9.88	17.00	1.00	60.00	4.00	5.00	14.88
66	Sodium Nitrate #(T3)	7.75	23.00	2.00	124.00	5.00	7.00	14.75
67	Sulfur tetrafluoride-T3*	12.75	2.00	0.00	6.00	2.00	2.00	14.75
68	Tungsten hexafluoride-T3*	11.75	8.00	0.00	17.00	3.00	3.00	14.75
69	Hexafluoroacetone E3	11.75	6.00	0.00	18.00	3.00	3.00	14.75
70	Silicon tetrafluoride-T3*	11.75	9.00	0.00	15.00	3.00	3.00	14.75
71	Benzene	5.63	42.00	4.00	291.00	5.00	9.00	14.63
72	Ethyl acetate #(T3)	6.63	30.00	3.00	139.00	5.00	8.00	14.63
73	Methyl alcohol	5.63	47.00	4.00	268.00	5.00	9.00	14.63
74	Toluene	5.63	40.00	4.00	237.00	5.00	9.00	14.63
75	Ethylene oxide	7.63	32.00	3.00	84.00	4.00	7.00	14.63
76	Toluene-2,4-diisocyanate	10.63	12.00	1.00	20.00	3.00	4.00	14.63
77	Xylenes #(T3)	7.63	32.00	3.00	76.00	4.00	7.00	14.63
78	Carbon monoxide/Syngas	7.50	31.00	3.00	55.00	4.00	7.00	14.50
79	Cypermethrin #I as in pyrethrum)	9.50	15.00	1.00	89.00	4.00	5.00	14.50
80	Hydrogen sulfide	10.50	15.00	1.00	24.00	3.00	4.00	14.50
81	Molybdophosphoric acid	10.50	10.00	1.00	22.00	3.00	4.00	14.50
82	Fluorine	10.50	10.00	1.00	17.00	3.00	4.00	14.50
83	Malathion * #(T3)	10.50	11.00	1.00	33.00	3.00	4.00	14.50
84	Butane T3	7.50	36.00	3.00	97.00	4.00	7.00	14.50
85	Ammonium Chloride	7.38	25.00	2.00	141.00	5.00	7.00	14.38
86	Potassium dichromate #(T3)	9.38	17.00	1.00	69.00	4.00	5.00	14.38
87	Barium nitrate *T3	9.38	15.00	1.00	72.00	4.00	5.00	14.38
88	Imidacloprid #E3)	9.38	10.00	1.00	75.00	4.00	5.00	14.38
89	Potassium nitrate #(T3)	7.38	24.00	2.00	117.00	5.00	7.00	14.38
90	Phenyl etherbiphenyl mixture (vapor) #(I)	13.38	3.00	0.00	3.00	1.00	1.00	14.38
91	Nitrosyl chloride-T3*	13.38	1.00	0.00	1.00	1.00	1.00	14.38
92	Aniline	9.25	16.00	1.00	64.00	4.00	5.00	14.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
93	1,3-Butadiene	106-99-0	22000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
94	Cyclohexanone #(T3)	108-94-1	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
95	Boron trichloride T3	10294-34-5	2.50	4.00	2.00	2.50	4.00	0.00	1.25	5.00
96	Chlorine trifluoride E3	7790-91-2	10.00	4.00	3.00	1.25	0.00	5.00	3.13	5.00
97	Arsenic Trioxide	1327-53-3	1.12	4.00	0.00	5.00	0.00	5.00	5.00	1.00
98	Potassium ferrocyanide #(T3)	13943-58-3	3.42	4.00	0.00	5.00	0.00	5.00	5.00	1.00
99	Cadmium	7440-43-9	1.96	4.00	0.00	5.00	0.00	5.00	5.00	1.00
100	Copper oxychloride #(E3)	1332-40-7	100.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
101	Dimethoate #(T3)	60-51-5	3.19	4.00	0.00	5.00	0.00	5.00	5.00	1.00
102	Endosulfan	115-29-7	2.10	4.00	0.00	5.00	0.00	5.00	5.00	1.00
103	Red mercuric oxide	21908-53-2	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
104	Sodium fluoride #(T3)	7681-49-4	43.76	3.00	0.00	5.00	0.00	5.00	5.00	1.00
105	Dichlorodifluoromethane #(T3)	75-71-8	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
106	Sulfuryl fluoride	2699-79-8	64.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
107	Thiram * #(T3)	137-26-8	10.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00
108	Acetylene tetrabromide #(T3)	79-27-6	8.00	4.00	1.00	3.75	0.00	5.00	4.38	2.50
109	Castor oil #(T3)	8001-79-4	13.12	3.00	0.00	5.00	1.00	3.75	4.38	2.50
110	Dimethylphthalate * #(T3)	131-11-3	62.96	3.00	0.00	5.00	1.00	3.75	4.38	2.50
111	o-Anisidine * #(T3)	90-04-0	9.93	4.00	0.00	5.00	1.00	3.75	4.38	2.50
112	Tributyl phosphate #(T3)	126-73-8	30.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
113	MDEA-R* (N-Methyldiethanolamine	105-59-9	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
114	Magnesium (powder)-T3*	7439-95-4	251.49	2.00	2.00	2.50	3.00	1.25	1.88	1.00
115	Sodium chlorate	7775-09-9	17.22	3.00	2.00	2.50	0.00	5.00	3.75	1.00
116	Benomyl	17804-35-2	0.84	5.00	1.00	3.75	1.00	3.75	3.75	1.00
117	Paracetamol #(E3-phenol)	103-90-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
118	Phenol #(E3)	108-95-2	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
119	Naphthalene #(T3)	91-20-3	250.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
120	Sodium sulfide #(T3)	1313-82-2	23.51	3.00	1.00	3.75	1.00	3.75	3.75	1.00
121	Sulfur trioxide	11/9/7446	160.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
122	Germanium tetrafluoride T3	7783-58-6	82.25	3.00	2.00	2.50	0.00	5.00	3.75	5.00
123	Hydrogen iodide T3	10034-85-2	120.00	2.00	2.00	2.50	0.00	5.00	3.75	5.00
124	Parathion *	56-38-2	0.17	5.00	2.00	2.50	1.00	3.75	3.13	2.50
125	Acetone	67-64-1	5700.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
126	Dimethyl sulfate	77-78-1	1.60	4.00	1.00	3.75	2.00	2.50	3.13	2.50
127	Ethylene dichloride #(E3)	107-06-2	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
128	Furfural #(E3)	98-01-1	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
129	n-Butyl acetate #(E3)	123-86-4	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
130	n-Butyl alcohol #(T3)	71-36-3	1400.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
131	Carbon tetrachloride	56-23-5	520.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
132	Chloroform	67-66-3	3200.00	0.00	0.00	5.00	0.00	5.00	5.00	2.50
133	Delta-methrin #(I as in pyrethrum)	52918-63-5	293.87	2.00	0.00	5.00	0.00	5.00	5.00	2.50
134	Phosphamidon #(T3)	13171-21-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
135	Bromoform #(T3)	75-25-2	850.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
136	Dimethylamine	124-40-3	250.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
137	Ethylamine	75-04-7	270.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
138	Ethylene dibromide	106-93-4	46.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
139	Methylamine	74-89-5	350.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
140	Phosdrin * #(T3) (Mevinphos)	7786-34-7	0.44	5.00	0.00	5.00	0.00	5.00	5.00	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
93	1,3-Butadiene	6.25	31.00	3.00	111.00	5.00	8.00	14.25
94	Cyclohexanone #(T3)	8.25	25.00	2.00	72.00	4.00	6.00	14.25
95	Boron trichloride T3	10.25	16.00	1.00	13.00	3.00	4.00	14.25
96	Chlorine trifluoride E3	12.13	4.00	0.00	8.00	2.00	2.00	14.13
97	Arsenic Trioxide	10.00	10.00	1.00	18.00	3.00	4.00	14.00
98	Potassium ferrocyanide #(T3)	10.00	12.00	1.00	38.00	3.00	4.00	14.00
99	Cadmium	10.00	19.00	1.00	37.00	3.00	4.00	14.00
100	Copper oxychloride #(E3)	9.00	21.00	2.00	41.00	3.00	5.00	14.00
101	Dimethoate #(T3)	10.00	11.00	1.00	39.00	3.00	4.00	14.00
102	Endosulfan	10.00	11.00	1.00	32.00	3.00	4.00	14.00
103	Red mercuric oxide	10.00	11.00	1.00	26.00	3.00	4.00	14.00
104	Sodium fluoride #(T3)	9.00	16.00	1.00	85.00	4.00	5.00	14.00
105	Dichlorodifluoromethane #(T3)	10.00	14.00	1.00	25.00	3.00	4.00	14.00
106	Sulfuryl fluoride	13.00	4.00	0.00	5.00	1.00	1.00	14.00
107	Thiram * #(T3)	9.00	17.00	1.00	72.00	4.00	5.00	14.00
108	Acetylene tetrabromide #(T3)	10.88	6.00	0.00	11.00	3.00	3.00	13.88
109	Castor oil #(T3)	9.88	18.00	1.00	50.00	3.00	4.00	13.88
110	Dimethylphthalate * #(T3)	9.88	16.00	1.00	36.00	3.00	4.00	13.88
111	o-Anisidine * #(T3)	10.88	5.00	0.00	24.00	3.00	3.00	13.88
112	Tributyl phosphate #(T3)	9.88	10.00	1.00	37.00	3.00	4.00	13.88
113	MDEA-R* (N-Methyldiethanolamine	8.88	24.00	2.00	44.00	3.00	5.00	13.88
114	Magnesium (powder)-T3*	4.88	42.00	4.00	423.00	5.00	9.00	13.88
115	Sodium chlorate	7.75	20.00	2.00	59.00	4.00	6.00	13.75
116	Benomyl	9.75	10.00	1.00	23.00	3.00	4.00	13.75
117	Paracetamol #(E3-phenol)	6.75	23.00	2.00	106.00	5.00	7.00	13.75
118	Phenol #(E3)	6.75	26.00	2.00	129.00	5.00	7.00	13.75
119	Naphthalene #(T3)	6.75	25.00	2.00	103.00	5.00	7.00	13.75
120	Sodium sulfide #T3)	7.75	21.00	2.00	86.00	4.00	6.00	13.75
121	Sulfur trioxide	10.75	7.00	0.00	13.00	3.00	3.00	13.75
122	Germanium tetrafluoride T3	11.75	2.00	0.00	7.00	2.00	2.00	13.75
123	Hydrogen iodide T3	10.75	2.00	0.00	30.00	3.00	3.00	13.75
124	Parathion *	10.63	3.00	0.00	11.00	3.00	3.00	13.63
125	Acetone	5.63	30.00	3.00	146.00	5.00	8.00	13.63
126	Dimethyl sulfate	9.63	12.00	1.00	39.00	3.00	4.00	13.63
127	Ethylene dichloride #(E3)	7.63	28.00	2.00	70.00	4.00	6.00	13.63
128	Furfural #(E3)	8.63	19.00	1.00	66.00	4.00	5.00	13.63
129	n-Butyl acetate #(E3)	5.63	30.00	3.00	124.00	5.00	8.00	13.63
130	n-Butyl alcohol #(T3)	6.63	26.00	2.00	106.00	5.00	7.00	13.63
131	Carbon tetrachloride	9.50	16.00	1.00	49.00	3.00	4.00	13.50
132	Chloroform	7.50	20.00	2.00	81.00	4.00	6.00	13.50
133	Deltamethrin #(I as in pyrethrum)	9.50	15.00	1.00	41.00	3.00	4.00	13.50
134	Phos�amidon #(T3)	12.50	3.00	0.00	4.00	1.00	1.00	13.50
135	Bromoform #(T3)	9.50	10.00	1.00	24.00	3.00	4.00	13.50
136	Dimethylamine	9.50	14.00	1.00	41.00	3.00	4.00	13.50
137	Ethylamine	9.50	14.00	1.00	33.00	3.00	4.00	13.50
138	Ethylene dibromide	10.50	7.00	0.00	27.00	3.00	3.00	13.50
139	Methylamine	9.50	14.00	1.00	46.00	3.00	4.00	13.50
140	Phosdrin * #(T3) (Mevinphos)	12.50	4.00	0.00	5.00	1.00	1.00	13.50

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
141	TEDP * #(T3)	3689-24-5	0.76	5.00	0.00	5.00	0.00	5.00	5.00	2.50
142	Aluminum (powder) *T3	7429-90-5	226.54	2.00	1.00	3.75	3.00	1.25	2.50	1.00
143	Ammonium persulfate *T3	7727-54-0	10.71	3.00	1.00	3.75	0.00	5.00	4.38	1.00
144	Atrazine *T3	1912-24-9	1.50	4.00	0.00	5.00	1.00	3.75	4.38	1.00
145	Cobalt (II) nitrate	10141-05-6	12.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
146	Potassium permanganate #(T3)	7722-64-7	19.34	3.00	1.00	3.75	0.00	5.00	4.38	1.00
147	Oxalic acid * #(T3)	144-62-7	135.77	2.00	0.00	5.00	1.00	3.75	4.38	1.00
148	Carbonyl fluoride T3	353-50-4	20.00	3.00	1.00	3.75	0.00	5.00	4.38	5.00
149	Arsine	7784-42-1	0.50	5.00	2.00	2.50	4.00	0.00	1.25	5.00
150	Dimethylformamide	68-12-2	530.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
151	Phosphine	7803-51-2	3.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
152	Ethylenediamine	107-15-3	20.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
153	N,N-Dimethylaniline #(T3)	121-69-7	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
154	o-Tolidine #(T3)	95-53-4	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
155	Chlorosulfonic acid E3	7790-94-5	6.29	4.00	0.00	5.00	2.00	2.50	3.75	2.50
156	Boron tribromide T3	10294-33-4	5.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50
157	Thionyl chloride-E3 ^a	7719-09-715	10.00	4.00	2.00	2.50	0.00	5.00	3.75	2.50
158	Titanium tetrachloride-E3*	7550-45-0	12.89	3.00	2.00	2.50	0.00	5.00	3.75	2.50
159	Dichlorosilane T3	4109-96-0	75.00	3.00	2.00	2.50	4.00	0.00	1.25	5.00
160	Ethylene T3	74-85-1	15000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
161	Periodic acid	10450-60-9	0.54	5.00	3.00	1.25	0.00	5.00	3.13	1.00
162	p-Phenylenediamine * #(T3)	106-50-3	5.70	4.00	1.00	3.75	2.00	2.50	3.13	1.00
163	Lead Oxide #(T3)	1309-60-0	10.22	3.00	0.00	5.00	0.00	5.00	5.00	1.00
164	Mercuric chloride #(T3 of Hg)	7487-94-7	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
165	Potassium cyanide #(T3)	151-50-8	22.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
166	Potassium orthophosphate #(T3 based on strontium orthophosphate)	7778-53-2	89.84	3.00	0.00	5.00	0.00	5.00	5.00	1.00
167	Arsenic *T3	7440-38-2	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
168	Metalexyl #(T3 of parent dixylyl methyl carbamate)	57837-19-1	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
169	Metrizobuzin #(T3 as diazo compound)	21087-64-9	10.98	3.00	0.00	5.00	0.00	5.00	5.00	1.00
170	Potassium fluoride #(T3)	7789-23-3	210.38	2.00	0.00	5.00	0.00	5.00	5.00	1.00
171	2 Aminopyridine #(I)	504-29-0	5.00	4.00	0.00	5.00	0.00	5.00	5.00	1.00
172	2,4-D * #(T3)	94-75-7	11.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
173	Carbaryl * #(T3)	63-25-2	12.15	3.00	0.00	5.00	0.00	5.00	5.00	1.00
174	Collodion #(T3)	9004-70-0	12.23	3.00	0.00	5.00	4.00	0.00	2.50	2.50
175	Dinitrobenzene* (o, m, p isomers) * #(T3)	528-29-0; 99-65-0; 100-25-4	7.27	4.00	0.00	5.00	0.00	5.00	5.00	1.00
176	p-Anisidine * #(T3)	104-94-9	9.93	4.00	0.00	5.00	0.00	5.00	5.00	1.00
177	Pentachlorophenol * #(T3)	87-86-5	0.23	5.00	0.00	5.00	0.00	5.00	5.00	1.00
178	Warfarin * #(T3)	81-81-2	1.60	4.00	0.00	5.00	0.00	5.00	5.00	1.00
179	Dinitrogen tetroxide T3	10544-72-6	20.00	3.00	0.00	5.00	0.00	5.00	5.00	5.00
180	Nitrogen trioxide-T3*	10544-73-7	500.00	2.00	0.00	5.00	0.00	5.00	5.00	5.00
181	Diphenyl Ether #(T3)	101-84-8	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
182	Fenvalerate	51630-58-1	29.11	3.00	0.00	5.00	1.00	3.75	4.38	2.50
183	Methyl iodide #(E3)	74-88-4	125.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
184	Methylene chloride	75-09-2	6900.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
141	TEDP * #(T3)	12.50	1.00	0.00	1.00	1.00	1.00	13.50
142	Aluminum (powder) *T3	5.50	39.00	3.00	520.00	5.00	8.00	13.50
143	Ammonium persulfate *T3	8.38	12.00	1.00	57.00	4.00	5.00	13.38
144	Atrazine *T3	9.38	10.00	1.00	23.00	3.00	4.00	13.38
145	Cobalt (II) nitrate	8.38	18.00	1.00	70.00	4.00	5.00	13.38
146	Potassium permanganate #(T3)	8.38	16.00	1.00	57.00	4.00	5.00	13.38
147	Oxalic acid * #(T3)	7.38	16.00	1.00	106.00	5.00	6.00	13.38
148	Carbonyl fluoride T3	12.38	1.00	0.00	3.00	1.00	1.00	13.38
149	Arsine	11.25	8.00	0.00	10.00	2.00	2.00	13.25
150	Dimethylformamide	8.25	19.00	1.00	64.00	4.00	5.00	13.25
151	Phosphine	10.25	9.00	0.00	13.00	3.00	3.00	13.25
152	Ethylenediamine	9.25	12.00	1.00	32.00	3.00	4.00	13.25
153	N,N-Dimethylaniline #(T3)	9.25	11.00	1.00	41.00	3.00	4.00	13.25
154	o-Tolidine #(T3)	9.25	11.00	1.00	32.00	3.00	4.00	13.25
155	Chlorosulfonic acid E3	10.25	6.00	0.00	38.00	3.00	3.00	13.25
156	Boron tribromide T3	10.25	3.00	0.00	12.00	3.00	3.00	13.25
157	Thionyl chloride-E3 ^a	10.25		0.00	23.00	3.00	3.00	13.25
158	Titanium tetrachloride-E3*	9.25	15.00	1.00	25.00	3.00	4.00	13.25
159	Dichlorosilane T3	9.25	12.00	1.00	12.00	3.00	4.00	13.25
160	Ethylene T3	6.25	20.00	2.00	173.00	5.00	7.00	13.25
161	Periodic acid	9.13	10.00	1.00	21.00	3.00	4.00	13.13
162	p-Phenylenediamine * #(T3)	8.13	12.00	1.00	52.00	4.00	5.00	13.13
163	Lead Oxide #(T3)	9.00	10.00	1.00	20.00	3.00	4.00	13.00
164	Mercuric chloride #(T3 of Hg)	10.00	9.00	0.00	21.00	3.00	3.00	13.00
165	Potassium cyanide #(T3)	9.00	14.00	1.00	23.00	3.00	4.00	13.00
166	Potassium orthophosphate #(T3 based on strontium orthophosphate)	9.00	11.00	1.00	33.00	3.00	4.00	13.00
167	Arsenic *T3	10.00	6.00	0.00	11.00	3.00	3.00	13.00
168	Metalaxyl #(T3 of parent dixylyl methyl carbamate)	10.00	8.00	0.00	25.00	3.00	3.00	13.00
169	Metrizobuzin #(T3 as diazo compound)	9.00	11.00	1.00	23.00	3.00	4.00	13.00
170	Potassium fluoride #(T3)	8.00	14.00	1.00	82.00	4.00	5.00	13.00
171	2 Aminopyridine #(I)	10.00	6.00	0.00	20.00	3.00	3.00	13.00
172	2,4-D * #(T3)	9.00	15.00	1.00	32.00	3.00	4.00	13.00
173	Carbaryl * #(T3)	9.00	10.00	1.00	25.00	3.00	4.00	13.00
174	Collodion #(T3)	8.00	22.00	2.00	40.00	3.00	5.00	13.00
175	Dinitrobenzene* (o, m, p isomers) * #(T3)	10.00	6.00	0.00	15.00	3.00	3.00	13.00
176	p-Anisidine * #(T3)	10.00	5.00	0.00	19.00	3.00	3.00	13.00
177	Pentachlorophenol * #(T3)	11.00	4.00	0.00	7.00	2.00	2.00	13.00
178	Warfarin * #(T3)	10.00	9.00	0.00	14.00	3.00	3.00	13.00
179	Dinitrogen tetroxide T3	13.00	0.00	0.00	0.00	0.00	0.00	13.00
180	Nitrogen trioxide-T3*	12.00	1.00	0.00	2.00	1.00	1.00	13.00
181	Diphenyl Ether #(T3)	9.88	5.00	0.00	23.00	3.00	3.00	12.88
182	Fenvalerate	9.88	6.00	0.00	48.00	3.00	3.00	12.88
183	Methyl iodide #(E3)	8.88	10.00	1.00	40.00	3.00	4.00	12.88
184	Methylene chloride	6.88	21.00	2.00	83.00	4.00	6.00	12.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
185	Phosphotungstic acid #(T3 of tungstic acid)	12067-99-1	13.60	3.00	1.00	3.75	0.00	5.00	4.38	2.50
186	Polyphosphoric acid	68333-79-9	14.47	3.00	1.00	3.75	0.00	5.00	4.38	2.50
187	TEPP * #(T3)	107-49-3	0.42	5.00	1.00	3.75	0.00	5.00	4.38	2.50
188	Dicofol #(T3)	115-32-2	0.50	5.00	1.00	3.75	1.00	3.75	3.75	1.00
189	Phosphorus	7723-14-0	3.16	4.00	1.00	3.75	1.00	3.75	3.75	1.00
190	Methylene bisphenyl isocyanate * #(E3)	101-68-8	2.40	4.00	1.00	3.75	1.00	3.75	3.75	1.00
191	Aluminum chloride, anhydrous *T3	7446-70-0	91.68	3.00	2.00	2.50	0.00	5.00	3.75	1.00
192	Isobutyl alcohol #(T3)	78-83-1	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
193	Isopropyl alcohol #(T3)	67-63-0	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
194	Nitrobenzene #(T3)	98-95-3	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
195	Cyclohexane #(T3)	110-82-7	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
196	Acetic anhydride #(T3)	108-24-7	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
197	Benzyl chloride #(E3)	100-44-7	25.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
198	Chlorobenzene	108-90-7	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
199	Ethyl benzene	100-41-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
200	Furfuryl alcohol #(T3)	98-00-0	75.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
201	Hexone #(T3)	108-10-1	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
202	Isoamyl alcohol (primary and secondary) #(T3)	123-51-3	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
203	Isobutyl acetate #(T3)	110-19-0	1300.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
204	Methyl chloroformate-T3*	79-22-1	4.00	4.00	0.00	5.00	3.00	1.25	3.13	2.50
205	Demeton * #(T3) (Systox)	8065-48-3	0.95	5.00	0.00	5.00	0.00	5.00	5.00	2.50
206	1,1,2,2-Tetrachloroethane #(T3)	79-34-5	100.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
207	1,1,2-Trichloro-1,2,2-trifluoroethane #(T3)	76-13-1	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
208	Hydrogen selenide	7783-07-5	2.20	4.00	1.00	3.75	3.00	1.25	2.50	5.00
209	Sulfur pentafluoride #(T3)	5714-22-7	1.00	5.00	0.00	5.00	0.00	5.00	5.00	2.50
210	Tetrachloroethylene	127-18-4	1200.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
211	Trithion	786-19-6	0.49	5.00	0.00	5.00	0.00	5.00	5.00	2.50
212	Trimethylamine-E3*	75-50-3	500.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
213	Ethane T3	74-84-0	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
214	Acephate	30560-19-1	5.00	4.00	0.00	5.00	1.00	3.75	4.38	1.00
215	Lead nitrate	10099-74-8	11.07	3.00	1.00	3.75	0.00	5.00	4.38	1.00
216	Azinphosmethyl * #(T3)	86-50-0	0.77	5.00	0.00	5.00	1.00	3.75	4.38	1.00
217	Bismuth *T3 of BiOCl	7440-69-9	47.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
218	Mercuric nitrate	10045-94-0	1.07	4.00	1.00	3.75	0.00	5.00	4.38	1.00
219	Methyl parathion #(T3)	298-00-0	1.39	4.00	0.00	5.00	1.00	3.75	4.38	1.00
220	2,6-di-tert-butyl-p-cresol *T3	128-37-0	44.45	3.00	0.00	5.00	1.00	3.75	4.38	1.00
221	2-chloroacetophenone *IDLH	532-27-4	2.38	4.00	0.00	5.00	1.00	3.75	4.38	1.00
222	Acrylonitrile	107-13-1	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
223	Hydroquinone * #(T3)	123-31-9	11.10	3.00	0.00	5.00	1.00	3.75	4.38	1.00
224	Styrene	100-42-5	1100.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
225	2-Diethylaminoethanol #(I)	100-37-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
226	Bromoxynil #(T3-as naptha solution only)	1689-84-5	80.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
227	Tetramethylmethylenediamine #(T#)	110-18-9	125.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
228	4-chlorobutyronitrile (as CN)	628-20-6	25.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
185	Phosphotungstic acid #(T3 of tungstic acid)	9.88	9.00	0.00	21.00	3.00	3.00	12.88
186	Polyphosphoric acid	9.88	9.00	0.00	26.00	3.00	3.00	12.88
187	TEPP * #(T3)	11.88	1.00	0.00	1.00	1.00	1.00	12.88
188	Dicofol #(T3)	9.75	8.00	0.00	18.00	3.00	3.00	12.75
189	Phosphorus	8.75	11.00	1.00	49.00	3.00	4.00	12.75
190	Methylene bisphenyl isocyanate * #(E3)	8.75	12.00	1.00	25.00	3.00	4.00	12.75
191	Aluminum chloride, anhydrous *T3	7.75	10.00	1.00	99.00	4.00	5.00	12.75
192	Isobutyl alcohol #(T3)	6.63	27.00	2.00	80.00	4.00	6.00	12.63
193	Isopropyl alcohol #(T3)	6.63	24.00	2.00	90.00	4.00	6.00	12.63
194	Nitrobenzene #(T3)	7.63	12.00	1.00	55.00	4.00	5.00	12.63
195	Cyclohexane #(T3)	6.63	26.00	2.00	75.00	4.00	6.00	12.63
196	Acetic anhydride #(T3)	7.63	19.00	1.00	55.00	4.00	5.00	12.63
197	Benzyl chloride #(E3)	8.63	12.00	1.00	41.00	3.00	4.00	12.63
198	Chlorobenzene	7.63	13.00	1.00	53.00	4.00	5.00	12.63
199	Ethyl benzene	6.63	21.00	2.00	51.00	4.00	6.00	12.63
200	Furfuryl alcohol #(T3)	8.63	12.00	1.00	38.00	3.00	4.00	12.63
201	Hexone #(T3)	7.63	17.00	1.00	52.00	4.00	5.00	12.63
202	Isoamyl alcohol (primary and secondary) #(T3)	7.63	18.00	1.00	60.00	4.00	5.00	12.63
203	Isobutyl acetate #(T3)	6.63	21.00	2.00	56.00	4.00	6.00	12.63
204	Methyl chloroformate-T3*	9.63	2.00	0.00	23.00	3.00	3.00	12.63
205	Demeton * #(T3) (Systox)	12.50	0.00	0.00	0.00	0.00	0.00	12.50
206	1,1,2,2-Tetrachloroethane #(T3)	10.50	6.00	0.00	10.00	2.00	2.00	12.50
207	1,1,2-Trichloro-1,2,2-trifluoroethane #(T3)	8.50	12.00	1.00	15.00	3.00	4.00	12.50
208	Hydrogen selenide	11.50	5.00	0.00	5.00	1.00	1.00	12.50
209	Sulfur pentafluoride #(T3)	12.50	0.00	0.00	0.00	0.00	0.00	12.50
210	Tetrachloroethylene	8.50	17.00	1.00	43.00	3.00	4.00	12.50
211	Trithion	12.50	0.00	0.00	0.00	0.00	0.00	12.50
212	Trimethylamine-E3*	9.50	8.00	0.00	41.00	3.00	3.00	12.50
213	Ethane T3	7.50	28.00	2.00	33.00	3.00	5.00	12.50
214	Acephate	9.38	9.00	0.00	49.00	3.00	3.00	12.38
215	Lead nitrate	8.38	16.00	1.00	49.00	3.00	4.00	12.38
216	Azinphosmethyl * #(T3)	10.38	5.00	0.00	7.00	2.00	2.00	12.38
217	Bismuth *T3 of BiOCl	8.38	15.00	1.00	26.00	3.00	4.00	12.38
218	Mercuric nitrate	9.38	8.00	0.00	14.00	3.00	3.00	12.38
219	Methyl parathion #(T3)	9.38	7.00	0.00	25.00	3.00	3.00	12.38
220	2,6-di-tert-butyl-p-cresol *T3	8.38	13.00	1.00	48.00	3.00	4.00	12.38
221	2-chloroacetophenone *IDLH	9.38	6.00	0.00	11.00	3.00	3.00	12.38
222	Acrylonitrile	7.38	16.00	1.00	53.00	4.00	5.00	12.38
223	Hydroquinone * #(T3)	8.38	15.00	1.00	41.00	3.00	4.00	12.38
224	Styrene	5.38	28.00	2.00	104.00	5.00	7.00	12.38
225	2-Diethylaminoethanol #(I)	9.25	0.00	0.00	23.00	3.00	3.00	12.25
226	Bromoxynil #(T3-as naptha solution only)	9.25	5.00	0.00	14.00	3.00	3.00	12.25
227	Tetramethylethylenediamine #(T#)	8.25	10.00	1.00	18.00	3.00	4.00	12.25
228	4-chlorobutyronitrile (as CN)	9.25	4.00	0.00	11.00	3.00	3.00	12.25

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
229	Cyclohexanol #(T3)	108-93-0	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
230	Dichloroethyl ether #(T3)	111-44-4	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
231	Dimethyl acetamide #(T3)	127-19-5	300.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
232	Ethylene chlorohydrin	107-07-3	12.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
233	Methyl (n-amyl) ketone #(T3)	110-43-0	800.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
234	Monomethyl aniline #(T3)	100-61-8	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
235	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	88-72-2; 99-08-1; 99-99-0	60.00	3.00	1.00	3.75	1.00	3.75	3.75	2.50
236	Perchloromethyl mercaptan	594-42-3	0.90	5.00	2.00	2.50	0.00	5.00	3.75	2.50
237	Phenylhydrazine #(T3)	100-63-0	15.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
238	Methylphenyldichlorosilane-T3*	149-74-6	2.56	4.00	0.00	5.00	2.00	2.50	3.75	2.50
239	Sulfuryl chloride-T3*	7791-25-5	15.00	3.00	2.00	2.50	0.00	5.00	3.75	2.50
240	Chlorine pentafluoride T3	13637-63-3	60.00	3.00	3.00	1.25	0.00	5.00	3.13	5.00
241	Lindane * #(T3)	58-89-9	4.20	4.00	0.00	5.00	0.00	5.00	5.00	1.00
242	Methomyl	16752-77-5	30.13	3.00	0.00	5.00	0.00	5.00	5.00	1.00
243	Strychnine Sulfate #(T3)	60-41-3	0.29	5.00	0.00	5.00	0.00	5.00	5.00	1.00
244	Boron *#T3 of B2O3	7440-42-8	175.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
245	Buprofezin *#T3 based on limited acute toxicity pesticide	69327-76-0	20.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
246	Fenpropothrin #(A EGL-3 of Cyano group of the carboxylate family)	39515-41-8	25.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
247	Methamidophos	10265-92-6	10.39	3.00	0.00	5.00	0.00	5.00	5.00	1.00
248	Sodium fluoroacetate #(T3)	62-74-8	0.61	5.00	0.00	5.00	0.00	5.00	5.00	1.00
249	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	76-11-9	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
250	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	76-12-0	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	5.00
251	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoin REV 22)	118-52-5	62.06	3.00	0.00	5.00	0.00	5.00	5.00	1.00
252	Cumene	98-82-8	730.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
253	Dichlorotetrafluoroethane #(T3)	76-14-2	15000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
254	Difethialone (T3 based on warfarin)	104653-34-1	0.67	5.00	0.00	5.00	0.00	5.00	5.00	1.00
255	Dinitrocresol * #(T3)	534-52-1	0.62	5.00	0.00	5.00	0.00	5.00	5.00	1.00
256	Endrin * #(T3)	72-20-8	0.13	5.00	0.00	5.00	0.00	5.00	5.00	1.00
257	EPN * #(T3)	2104-64-5	0.38	5.00	0.00	5.00	0.00	5.00	5.00	1.00
258	Thallium sulfate #(T3 of Tl)	7446-18-6	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
259	Trifluorobromomethane #(T3)	75-63-8	40000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
260	Nitrogen mustard hydrochloride-T3*	55-86-7	0.51	5.00	0.00	5.00	0.00	5.00	5.00	1.00
261	Iron, pentacarbonyl- T3	13463-40-6	0.18	5.00	1.00	3.75	3.00	1.25	2.50	2.50
262	Acetone cyanohydrin, stabilized *T-3	75-86-5	15.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
263	Acetyl Bromide *T3	506-96-7	20.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
264	Di-syston #(T3)	298-04-4	6.68	4.00	0.00	5.00	1.00	3.75	4.38	2.50
265	Oxydemeton-methyl #(I)	301-12-2	3.97	4.00	0.00	5.00	1.00	3.75	4.38	2.50
266	Trichloroethylene	79-01-6	3800.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
267	1,1,2-Trichloroethane #(T3)	79-00-5	100.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
229	Cyclohexanol #(T3)	8.25	15.00	1.00	27.00	3.00	4.00	12.25
230	Dichloroethyl ether #(T3)	9.25	4.00	0.00	12.00	3.00	3.00	12.25
231	Dimethyl acetamide #(T3)	8.25	11.00	1.00	38.00	3.00	4.00	12.25
232	Ethylene chlorohydrin	9.25	6.00	0.00	17.00	3.00	3.00	12.25
233	Methyl (n-amyl) ketone #(T3)	8.25	11.00	1.00	20.00	3.00	4.00	12.25
234	Monomethyl aniline #(T3)	9.25	6.00	0.00	17.00	3.00	3.00	12.25
235	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	9.25	7.00	0.00	19.00	3.00	3.00	12.25
236	Perchloromethyl mercaptan	11.25	3.00	0.00	5.00	1.00	1.00	12.25
237	Phenylhydrazine #(T3)	9.25	8.00	0.00	23.00	3.00	3.00	12.25
238	Methylphenyldichlorosilane-T3*	10.25	1.00	0.00	6.00	2.00	2.00	12.25
239	Sulfuryl chloride-T3*	9.25	7.00	0.00	17.00	3.00	3.00	12.25
240	Chlorine pentafluoride T3	11.13	1.00	0.00	1.00	1.00	1.00	12.13
241	Lindane * #(T3)	10.00	3.00	0.00	9.00	2.00	2.00	12.00
242	Methomyl	9.00	9.00	0.00	46.00	3.00	3.00	12.00
243	Strychnine Sulfate #(T3)	11.00	1.00	0.00	3.00	1.00	1.00	12.00
244	Boron *T3 of B2O3	8.00	10.00	1.00	23.00	3.00	4.00	12.00
245	Buprofezin #T3 based on limited acute toxicity pesticide	9.00	5.00	0.00	27.00	3.00	3.00	12.00
246	Fenpropatrin #(A EGL-3 of Cyano group of the carboxylate family)	9.00	3.00	0.00	19.00	3.00	3.00	12.00
247	Methamidophos	9.00	9.00	0.00	45.00	3.00	3.00	12.00
248	Sodium fluoroacetate #(T3)	11.00	3.00	0.00	3.00	1.00	1.00	12.00
249	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	11.00	2.00	0.00	3.00	1.00	1.00	12.00
250	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	11.00	1.00	0.00	1.00	1.00	1.00	12.00
251	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoin REV 22)	9.00	3.00	0.00	16.00	3.00	3.00	12.00
252	Cumene	7.00	20.00	2.00	39.00	3.00	5.00	12.00
253	Dichlorotetrafluoroethane #(T3)	10.00	6.00	0.00	6.00	2.00	2.00	12.00
254	Difethialone (T3 based on warfarin)	11.00	1.00	0.00	1.00	1.00	1.00	12.00
255	Dinitrocresol * #(T3)	11.00	2.00	0.00	3.00	1.00	1.00	12.00
256	Endrin * #(T3)	11.00	1.00	0.00	1.00	1.00	1.00	12.00
257	EPN * #(T3)	11.00	2.00	0.00	4.00	1.00	1.00	12.00
258	Thallium sulfate #(T3 of Tl)	10.00	4.00	0.00	8.00	2.00	2.00	12.00
259	Trifluorobromomethane #(T3)	10.00	7.00	0.00	9.00	2.00	2.00	12.00
260	Nitrogen mustard hydrochloride-T3*	11.00	3.00	0.00	3.00	1.00	1.00	12.00
261	Iron, pentacarbonyl- T3	10.00	1.00	0.00	8.00	2.00	2.00	12.00
262	Acetone cyanohydrin, stabilized *T-3	8.00	13.00	1.00	22.00	3.00	4.00	12.00
263	Acetyl Bromide *T3	8.00	10.00	1.00	23.00	3.00	4.00	12.00
264	Di-syston #(T3)	10.88	3.00	0.00	3.00	1.00	1.00	11.88
265	Oxydemeton-methyl #(I)	10.88	3.00	0.00	3.00	1.00	1.00	11.88
266	Trichloroethylene	6.88	17.00	1.00	55.00	4.00	5.00	11.88
267	1,1,2-Trichloroethane #(T3)	9.88	2.00	0.00	7.00	2.00	2.00	11.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
268	Methyl mercaptan	74-93-1	68.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
269	Triethanolamine-T3*	102-71-6	81.94	3.00	0.00	5.00	1.00	3.75	4.38	2.50
270	Antimony Pentfluoride T3	7783-70-2	8.46	4.00	1.00	3.75	0.00	5.00	4.38	2.50
271	Barium *T3	7440-39-3	22.31	3.00	2.00	2.50	0.00	5.00	3.75	1.00
272	Sodium azide (#T3)	26628-22-8	4.69	4.00	2.00	2.50	0.00	5.00	3.75	1.00
273	Camphor (synthetic) * #(T3)	76-22-2	32.11	3.00	0.00	5.00	2.00	2.50	3.75	1.00
274	Phosphorus pentachloride * #(T3)	10026-13-8	8.22	4.00	2.00	2.50	0.00	5.00	3.75	1.00
275	Quinone #(T3)	106-51-4	22.60	3.00	0.00	5.00	2.00	2.50	3.75	1.00
276	Sulfur trioxide-E3*	7446-11-9	9.16	4.00	2.00	2.50	0.00	5.00	3.75	1.00
277	Potassium chlorate	3811-04-9	69.83	3.00	2.00	2.50	0.00	5.00	3.75	1.00
278	Acetonitrile	75-05-8	670.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
279	Chloropicrin	76-06-2	1.40	4.00	3.00	1.25	0.00	5.00	3.13	2.50
280	n-Amyl acetate #(T3)	628-63-7	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
281	n-Propyl alcohol #(T3)	71-23-8	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
282	Tetrahydrofuran #(T3)	109-99-9	5000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
283	Diborane	19287-45-7	3.70	4.00	3.00	1.25	4.00	0.00	0.63	5.00
284	Diethylamine #(T3)	109-89-7	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
285	Isoamyl acetate #(T3)	123-92-2	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
286	Methyl Cellosolve (r) #(I)	109-86-4	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
287	N-Ethylmorpholine #(I)	100-74-3	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
288	n-Heptane #(T3)	142-82-5	750.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
289	n-Hexane	110-54-3	8600.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
290	Pyridine #(T3)	110-86-1	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
291	Sulfur monochloride	10025-67-9	15.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
292	Triethylamine #(T3)	121-44-8	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
293	Cyclohexylamine T3	108-91-8	30.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
294	Propyl chloroformate-T3*	109-61-5	60.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
295	Piperidine-T3*	110-89-4	250.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
296	2-chlorobenzoyl Chloride	609-65-4	1.00	5.00	2.00	2.50	2.00	2.50	2.50	1.00
297	Chloroform-D	865-49-6	500.00	2.00	0.00	5.00	0.00	5.00	5.00	2.50
298	Profenofos #(I)	41198-08-7	1600.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
299	Cyanide	57-12-5	25.00	3.00	0.00	5.00	0.00	5.00	5.00	2.50
300	Methyl chloride	74-87-3	3000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
301	1-Butene T3	106-98-9	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
302	Paraquat* (dichloride)	1910-42-5	19.60	3.00	1.00	3.75	0.00	5.00	4.38	1.00
303	alpha-Chloroacetophenone * #(I)	532-27-4	2.37	4.00	0.00	5.00	1.00	3.75	4.38	1.00
304	Bifenthrin Tox est. on Pyr.	82657-04-3	20.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
305	Biphenyl * #(T3)	92-52-4	15.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00
306	guanidine hydrochloride	50-01-1	51.28	3.00	0.00	5.00	1.00	3.75	4.38	1.00
307	Mancozeb	8018-01-7	146.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
308	Phenamiphos #(T3)	22224-92-6	3.22	4.00	0.00	5.00	1.00	3.75	4.38	1.00
309	Thiophanate methyl #(T3 of carbamate fungicides)	23564-05-8	11.00	3.00	0.00	5.00	1.00	3.75	4.38	1.00
310	Epichlorohydrin #(I)	106-89-8	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
311	Ethyl ether #(T3)	60-29-7	1900.00	1.00	1.00	3.75	4.00	0.00	1.88	2.50
312	Triphenyl phosphate*	115-86-6	37.47	3.00	0.00	5.00	1.00	3.75	4.38	1.00
313	Acryl Chloride *T3	814-68-6	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
314	Chloromethyl methyl ether E3	107-30-2	10.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
268	Methyl mercaptan	9.88	6.00	0.00	9.00	2.00	2.00	11.88
269	Triethanolamine-T3*	9.88	6.00	0.00	6.00	2.00	2.00	11.88
270	Antimony Pentafluoride T3	10.88	3.00	0.00	4.00	1.00	1.00	11.88
271	Barium *T3	7.75	11.00	1.00	13.00	3.00	4.00	11.75
272	Sodium azide (#T3)	8.75	8.00	0.00	35.00	3.00	3.00	11.75
273	Camphor (synthetic) * #(T3)	7.75	13.00	1.00	37.00	3.00	4.00	11.75
274	Phosphorus pentachloride * #(T3)	8.75	7.00	0.00	17.00	3.00	3.00	11.75
275	Quinone #(T3)	7.75	12.00	1.00	25.00	3.00	4.00	11.75
276	Sulfur trioxide-E3*	8.75	6.00	0.00	12.00	3.00	3.00	11.75
277	Potassium chlorate	7.75	11.00	1.00	38.00	3.00	4.00	11.75
278	Acetonitrile	7.63	19.00	1.00	50.00	3.00	4.00	11.63
279	Chloropicrin	9.63	3.00	0.00	7.00	2.00	2.00	11.63
280	n-Amyl acetate #(T3)	7.63	14.00	1.00	37.00	3.00	4.00	11.63
281	n-Propyl alcohol #(T3)	7.63	18.00	1.00	50.00	3.00	4.00	11.63
282	Tetrahydrofuran #(T3)	5.63	21.00	2.00	65.00	4.00	6.00	11.63
283	Diborane	9.63	7.00	0.00	8.00	2.00	2.00	11.63
284	Diethylamine #(T3)	7.63	16.00	1.00	39.00	3.00	4.00	11.63
285	Isoamyl acetate #(T3)	7.63	13.00	1.00	46.00	3.00	4.00	11.63
286	Methyl Cellosolve (n)(I)	7.63	13.00	1.00	30.00	3.00	4.00	11.63
287	N-Ethylmorpholine #(I)	8.63	7.00	0.00	12.00	3.00	3.00	11.63
288	n-Heptane #(T3)	7.63	17.00	1.00	48.00	3.00	4.00	11.63
289	n-Hexane	5.63	23.00	2.00	78.00	4.00	6.00	11.63
290	Pyridine #(T3)	7.63	15.00	1.00	49.00	3.00	4.00	11.63
291	Sulfur monochloride	8.63	8.00	0.00	15.00	3.00	3.00	11.63
292	Triethylamine #(T3)	7.63	17.00	1.00	46.00	3.00	4.00	11.63
293	Cyclohexylamine T3	8.63	8.00	0.00	32.00	3.00	3.00	11.63
294	Propyl chloroformate-T3*	8.63	2.00	0.00	12.00	3.00	3.00	11.63
295	Piperidine-T3*	7.63	11.00	1.00	21.00	3.00	4.00	11.63
296	2-chlorobenzoyl Chloride	8.50	5.00	0.00	26.00	3.00	3.00	11.50
297	Chloroform-D	9.50	6.00	0.00	10.00	2.00	2.00	11.50
298	Profenofos #(I)	8.50	4.00	0.00	21.00	3.00	3.00	11.50
299	Cyanide	10.50	1.00	0.00	1.00	1.00	1.00	11.50
300	Methyl chloride	7.50	17.00	1.00	46.00	3.00	4.00	11.50
301	1-Butene T3	7.50	15.00	1.00	50.00	3.00	4.00	11.50
302	Paraquat* (dichloride)	8.38	8.00	0.00	29.00	3.00	3.00	11.38
303	alpha-Chloroacetophenone * #(I)	9.38	3.00	0.00	10.00	2.00	2.00	11.38
304	Bifenthrin Tox est. on Pyr.	8.38	5.00	0.00	20.00	3.00	3.00	11.38
305	Biphenyl * #(T3)	8.38	7.00	0.00	18.00	3.00	3.00	11.38
306	guanidine hydrochloride	8.38	7.00	0.00	12.00	3.00	3.00	11.38
307	Mancozeb	7.38	12.00	1.00	41.00	3.00	4.00	11.38
308	Phenamiphos #(T3)	9.38	3.00	0.00	6.00	2.00	2.00	11.38
309	Thiophanate methyl #(T3 of carbamate fungicides)	8.38	8.00	0.00	30.00	3.00	3.00	11.38
310	Epichlorohydrin #(I)	7.38	15.00	1.00	34.00	3.00	4.00	11.38
311	Ethyl ether #(T3)	5.38	20.00	2.00	57.00	4.00	6.00	11.38
312	Triphenyl phosphate*	8.38	5.00	0.00	21.00	3.00	3.00	11.38
313	Acryl Chloride *T3	8.38	5.00	0.00	15.00	3.00	3.00	11.38
314	Chloromethyl methyl ether E3	8.38	8.00	0.00	11.00	3.00	3.00	11.38

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
315	1-methyl imidazole LD50	616-47-7	417.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
316	2-thiophenecarbonitrile (as CN)	1003-31-2	25.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
317	Bromobenzene #(T3)	108-86-1	350.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
318	Toluene sulfonic acid #(T3 based on barium salt of the acid)	70788-37-3	70.99	3.00	1.00	3.75	1.00	3.75	3.75	2.50
319	2-Butoxyethanol #(T3)	111-76-2	700.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
320	2-Ethoxyethanol #(T3)	110-80-5	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
321	2-Ethoxyethyl acetate #(T3)	111-15-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
322	Allyl glycidyl ether #(I)	106-92-3	50.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
323	Chloroacetaldehyde	107-20-0	9.90	4.00	2.00	2.50	0.00	5.00	3.75	2.50
324	Diacetone alcohol #(T3)	123-42-2	1800.00	1.00	0.00	5.00	2.00	2.50	3.75	2.50
325	Diethyl phosphate #(T3)	107-66-4	30.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
326	Diisobutyl ketone #(T3)	108-83-8	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
327	Methyl isobutyl carbolin #(I)	108-11-2	400.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
328	n-Butyl glycidyl ether #(T3)	2426-08-6	250.00	2.00	1.00	3.75	1.00	3.75	3.75	2.50
329	Nitrogen trifluoride #(T3)	7783-54-2	800.00	2.00	3.00	1.25	3.00	1.25	1.25	5.00
330	o-Dichlorobenzene #(T3)	95-50-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
331	Oxygen difluoride	7783-41-7	2.50	4.00	3.00	1.25	3.00	1.25	1.25	5.00
332	p-tert-Butyltoluene #(I)	98-51-1	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
333	Triethyl phosphite-T3*	122-52-1	200.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
334	Iodine pentafluoride R	7783-66-6	98.07	3.00	2.00	2.50	0.00	5.00	3.75	2.50
335	Nitroglycerin #(T3)	55-63-0	8.07	4.00	4.00	0.00	3.00	1.25	0.63	2.50
336	Phosphorus pentasulfide * #(T3)	1314-80-3	27.50	3.00	2.00	2.50	1.00	3.75	3.13	1.00
337	Sodium borate	12179-04-3	32.09	3.00	0.00	5.00	0.00	5.00	5.00	1.00
338	Aldicarb *#	116-06-3	12.87	3.00	0.00	5.00	0.00	5.00	5.00	1.00
339	Antimony oxide *T3	1309-64-4	6.43	4.00	0.00	5.00	0.00	5.00	5.00	1.00
340	Dioxane	123-91-1	760.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
341	Pirimicarb #(T3 as carbamate ester)	5947-49-9	1.63	4.00	0.00	5.00	0.00	5.00	5.00	1.00
342	Thallium #(T3)	7440-28-0	1.77	4.00	0.00	5.00	0.00	5.00	5.00	1.00
343	Allyl alcohol	107-18-6	20.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
344	Allyl chloride	107-05-1	140.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
345	Carbon disulfide	75-15-0	480.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
346	Dichloromonofluoromethane #(T3)	75-43-4	5000.00	0.00	0.00	5.00	0.00	5.00	5.00	5.00
347	Ethyl silicate #E3)	78-10-4	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
348	Ferbam * #(I)	14484-64-1	15.00	3.00	0.00	5.00	0.00	5.00	5.00	1.00
349	Graphite #T3)	7782-42-5	1017.90	1.00	0.00	5.00	0.00	5.00	5.00	1.00
350	Heptachlor * #(T3)	76-44-8	2.29	4.00	0.00	5.00	0.00	5.00	5.00	1.00
351	Hexachloroethane #(T3)	67-72-1	300.00	2.00	0.00	5.00	0.00	5.00	5.00	1.00
352	Hexachloronaphthalene * #(T3)	1335-87-1	0.15	5.00	0.00	5.00	0.00	5.00	5.00	1.00
353	Isopropylamine #(T3)	75-31-0	750.00	2.00	0.00	5.00	4.00	0.00	2.50	2.50
354	n-Pentane #(T3)	109-66-0	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50
355	Chloromethyl ether E3	542-88-1	0.50	5.00	1.00	3.75	3.00	1.25	2.50	2.50
356	Propionitrile-T3*	107-12-0	37.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
357	Phenyltrichlorosilane-T3*	98-13-5	4.62	4.00	2.00	2.50	2.00	2.50	2.50	2.50
358	Halothane (T:V)	151-67-7	50.00	3.00	1.00	3.75	0.00	5.00	4.38	2.50
359	Chlorobromomethane #(T3)	74-97-5	2000.00	1.00	0.00	5.00	1.00	3.75	4.38	2.50
360	Methyl chloroform	71-55-6	4200.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
361	Perchloryl fluoride #(T3)	7616-94-6	100.00	3.00	3.00	1.25	2.00	2.50	1.88	5.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
315	1-methyl imidazole LD50	8.25	8.00	0.00	22.00	3.00	3.00	11.25
316	2-thiophenecarbonitrile (as CN)	9.25	4.00	0.00	9.00	2.00	2.00	11.25
317	Bromobenzene #T3)	8.25	8.00	0.00	34.00	3.00	3.00	11.25
318	Toluene sulfonic acid #(T3 based on barium salt of the acid)	9.25	5.00	0.00	6.00	2.00	2.00	11.25
319	2-Butoxyethanol #(T3)	8.25	1.00	0.00	43.00	3.00	3.00	11.25
320	2-Ethoxyethanol #(T3)	8.25	1.00	0.00	31.00	3.00	3.00	11.25
321	2-Ethoxyethyl acetate #(T3)	8.25	8.00	0.00	17.00	3.00	3.00	11.25
322	Allyl glycidyl ether #(I)	9.25	6.00	0.00	8.00	2.00	2.00	11.25
323	Chloroacetaldehyde	10.25	4.00	0.00	5.00	1.00	1.00	11.25
324	Diacetone alcohol #(T3)	7.25	11.00	1.00	30.00	3.00	4.00	11.25
325	Diethyl phosphate #(T3)	9.25	6.00	0.00	8.00	2.00	2.00	11.25
326	Diisobutyl ketone #(T3)	8.25	8.00	0.00	13.00	3.00	3.00	11.25
327	Methyl isobutyl carbolin #(I)	8.25	9.00	0.00	14.00	3.00	3.00	11.25
328	n-Butyl glycidyl ether #(T3)	8.25	7.00	0.00	13.00	3.00	3.00	11.25
329	Nitrogen trifluoride #(T3)	8.25	7.00	0.00	16.00	3.00	3.00	11.25
330	o-Dichlorobenzene #(T3)	8.25	9.00	0.00	37.00	3.00	3.00	11.25
331	Oxygen difluoride	10.25	2.00	0.00	2.00	1.00	1.00	11.25
332	p-tert-Butyltoluene #(I)	9.25	4.00	0.00	6.00	2.00	2.00	11.25
333	Triethyl phosphite-T3*	8.25	6.00	0.00	13.00	3.00	3.00	11.25
334	Iodine pentafluoride R	9.25	2.00	0.00	8.00	2.00	2.00	11.25
335	Nitroglycerin #(T3)	7.13	13.00	1.00	22.00	3.00	4.00	11.13
336	Phosphorus pentasulfide * #(T3)	7.13	12.00	1.00	28.00	3.00	4.00	11.13
337	Sodium borate	9.00	6.00	0.00	10.00	2.00	2.00	11.00
338	Aldicarb *#	9.00	4.00	0.00	6.00	2.00	2.00	11.00
339	Antimony oxide *T3	10.00	2.00	0.00	4.00	1.00	1.00	11.00
340	Dioxane	7.00	12.00	1.00	34.00	3.00	4.00	11.00
341	Pirimicarb #(T3 as carbamate ester)	10.00	1.00	0.00	1.00	1.00	1.00	11.00
342	Thallium #(T3)	10.00	5.00	0.00	5.00	1.00	1.00	11.00
343	Allyl alcohol	8.00	6.00	0.00	13.00	3.00	3.00	11.00
344	Allyl chloride	7.00	11.00	1.00	19.00	3.00	4.00	11.00
345	Carbon disulfide	7.00	16.00	1.00	45.00	3.00	4.00	11.00
346	Dichloromonofluoromethane #(T3)	10.00	3.00	0.00	5.00	1.00	1.00	11.00
347	Ethyl silicate #E3)	7.00	10.00	1.00	39.00	3.00	4.00	11.00
348	Ferbam * #(I)	9.00	6.00	0.00	8.00	2.00	2.00	11.00
349	Graphite #T3)	7.00	16.00	1.00	43.00	3.00	4.00	11.00
350	Heptachlor * #(T3)	10.00	1.00	0.00	1.00	1.00	1.00	11.00
351	Hexachloroethane #(T3)	8.00	3.00	0.00	15.00	3.00	3.00	11.00
352	Hexachloronaphthalene * #(T3)	11.00	0.00	0.00	0.00	0.00	0.00	11.00
353	Isopropylamine #(T3)	7.00	13.00	1.00	30.00	3.00	4.00	11.00
354	n-Pentane #(T3)	6.00	20.00	2.00	47.00	3.00	5.00	11.00
355	Chloromethyl ether E3	10.00	1.00	0.00	1.00	1.00	1.00	11.00
356	Propionitrile-T3*	8.00	3.00	0.00	14.00	3.00	3.00	11.00
357	Phenyltrichlorosilane-T3*	9.00	1.00	0.00	9.00	2.00	2.00	11.00
358	Halothane (T:V)	9.88	3.00	0.00	4.00	1.00	1.00	10.88
359	Chlorobromomethane #(T3)	7.88	7.00	0.00	11.00	3.00	3.00	10.88
360	Methyl chloroform	6.88	14.00	1.00	20.00	3.00	4.00	10.88
361	Perchloryl fluoride #(T3)	9.88	1.00	0.00	1.00	1.00	1.00	10.88

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
362	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	126-33-0	150.00	2.00	0.00	5.00	1.00	3.75	4.38	2.50
363	Xylylidine #(T3)	1300-73-8	50.00	3.00	0.00	5.00	1.00	3.75	4.38	2.50
364	Arsenic trichloride T3	7784-34-1	12.50	3.00	1.00	3.75	0.00	5.00	4.38	2.50
365	Cyanogen T3	460-19-5	15.00	3.00	1.00	3.75	4.00	0.00	1.88	5.00
366	Carbonyl sulfide T3	463-58-1	125.00	2.00	1.00	3.75	4.00	0.00	1.88	5.00
367	Vinyl chloride-T3 ^a	75-01-4	20000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
368	Methyl ether-T3*	115-10-6	60000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
369	Difluoroethane T3	75-37-6	75000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
370	Sodium hydrosulfite-T3*	7775-14-6	35.11	3.00	2.00	2.50	3.00	1.25	1.88	1.00
371	Hydrogen cyanide	74-90-8	15.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
372	Acrolein	107-02-8	1.40	4.00	3.00	1.25	3.00	1.25	1.25	2.50
373	p-Dichlorobenzene #(T3)	106-46-7	150.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
374	Propylene oxide	75-56-9	870.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
375	Potassium perchlorate-T3*	7778-74-7	88.24	3.00	2.00	2.50	0.00	5.00	3.75	1.00
376	Ethyl bromide #(T3)	74-96-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
377	Thioglycol TEEL-3	60-24-2	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
378	1,2,3-Trichloropropane #(T3)	96-18-4	100.00	3.00	1.00	3.75	2.00	2.50	3.13	2.50
379	2-Butanone	78-93-3	4000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
380	Chlorodiphenyl (42% chlorine)* #(T3)	53469-21-9	0.47	5.00	2.00	2.50	1.00	3.75	3.13	2.50
381	Diazomethane #(T3)	334-88-3	2.00	4.00	4.00	0.00	3.00	1.25	0.63	5.00
382	Diisopropylamine #(T3)	108-18-9	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
383	Isophorone #(T3)	78-59-1	200.00	2.00	1.00	3.75	2.00	2.50	3.13	2.50
384	Isopropyl acetate #(T3)	108-21-4	1800.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
385	n-Butylamine #(T3)	109-73-9	300.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
386	n-Propyl acetate #(I)	109-60-4	1700.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
387	Octane #(T3)	111-65-9	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
388	Phenyl glycidyl ether #(I)	122-60-1	100.00	3.00	0.00	5.00	3.00	1.25	3.13	2.50
389	Propylene dichloride #(T3)	78-87-5	400.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
390	sec-Butyl alcohol #(T3)	78-92-2	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
391	tert-Butyl alcohol #(T3)	75-65-0	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
392	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	78-53-5	0.30	5.00	1.00	3.75	2.00	2.50	3.13	2.50
393	Ethyl phosphonothioic dichloride R	993-43-1	7.50	4.00	1.00	3.75	2.00	2.50	3.13	2.50
394	Fluorosulfonic acid T3	7789-21-1	7.33	4.00	3.00	1.25	0.00	5.00	3.13	2.50
395	Acrylamide * #(T3)	79-06-1	20.64	3.00	2.00	2.50	2.00	2.50	2.50	1.00
396	Ethyl chloride #(T3)	75-00-3	3800.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
397	Methidathion #(T3)	950-37-8	32.35	3.00	0.00	5.00	1.00	3.75	4.38	1.00
398	Ammonium sulfamate * #(T3)	7773-06-0	107.10	2.00	0.00	5.00	1.00	3.75	4.38	1.00
399	Diketene	674-82-8	2.00	4.00	2.00	2.50	3.00	1.25	1.88	2.50
400	Ethyl acrylate	140-88-5	240.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
401	Methyl acrylate #(T3)	96-33-3	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
402	Methyl hydrazine	60-34-4	2.70	4.00	2.00	2.50	3.00	1.25	1.88	2.50
403	Methyl isocyanate	624-83-9	0.20	5.00	2.00	2.50	3.00	1.25	1.88	2.50
404	Methyl methacrylate	80-62-6	570.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
405	Methyltrichlorosilane-E3 ^a	75-79-6	15.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
406	Dimethyldichlorosilane T3	75-78-5	75.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
362	Tetramethylenedisulfotetramine #(T3 as triethylenetetramine)	8.88	5.00	0.00	10.00	2.00	2.00	10.88
363	Xylylidine #(T3)	9.88	4.00	0.00	4.00	1.00	1.00	10.88
364	Arsenic trichloride T3	9.88	1.00	0.00	5.00	1.00	1.00	10.88
365	Cyanogen T3	9.88	2.00	0.00	2.00	1.00	1.00	10.88
366	Carbonyl sulfide T3	8.88	2.00	0.00	10.00	2.00	2.00	10.88
367	Vinyl chloride-T3*	6.88	6.00	0.00	63.00	4.00	4.00	10.88
368	Methyl ether-T3*	6.88	15.00	1.00	27.00	3.00	4.00	10.88
369	Difluoroethane T3	6.88	14.00	1.00	15.00	3.00	4.00	10.88
370	Sodium hydrosulfite-T3*	5.88	20.00	2.00	48.00	3.00	5.00	10.88
371	Hydrogen cyanide	6.75	13.00	1.00	25.00	3.00	4.00	10.75
372	Acrolein	7.75	7.00	0.00	12.00	3.00	3.00	10.75
373	p-Dichlorobenzene #(T3)	6.75	10.00	1.00	38.00	3.00	4.00	10.75
374	Propylene oxide	5.75	16.00	1.00	54.00	4.00	5.00	10.75
375	Potassium perchlorate-T3*	7.75	7.00	0.00	27.00	3.00	3.00	10.75
376	Ethyl bromide #(T3)	6.63	10.00	1.00	37.00	3.00	4.00	10.63
377	Thioglycol TEEL-3	7.63	6.00	0.00	17.00	3.00	3.00	10.63
378	1,2,3-Trichloropropane #(T3)	8.63	6.00	0.00	10.00	2.00	2.00	10.63
379	2-Butanone	5.63	18.00	1.00	63.00	4.00	5.00	10.63
380	Chlorodiphenyl (42% chlorine)* #(T3)	10.63	0.00	0.00	0.00	0.00	0.00	10.63
381	Diazomethane #(T3)	9.63	2.00	0.00	2.00	1.00	1.00	10.63
382	Diisopropylamine #(T3)	7.63	6.00	0.00	18.00	3.00	3.00	10.63
383	Isophorone #(T3)	7.63	7.00	0.00	13.00	3.00	3.00	10.63
384	Isopropyl acetate #(T3)	6.63	14.00	1.00	41.00	3.00	4.00	10.63
385	n-Butylamine #(T3)	7.63	8.00	0.00	19.00	3.00	3.00	10.63
386	n-Propyl acetate #(I)	6.63	12.00	1.00	31.00	3.00	4.00	10.63
387	Octane #(T3)	7.63	8.00	0.00	15.00	3.00	3.00	10.63
388	Phenyl glycidyl ether #(I)	8.63	7.00	0.00	10.00	2.00	2.00	10.63
389	Propylene dichloride #(T3)	7.63	9.00	0.00	16.00	3.00	3.00	10.63
390	sec-Butyl alcohol #(T3)	6.63	12.00	1.00	24.00	3.00	4.00	10.63
391	tert-Butyl alcohol #(T3)	6.63	13.00	1.00	37.00	3.00	4.00	10.63
392	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3	10.63	0.00	0.00	0.00	0.00	0.00	10.63
393	Ethyl phosphonothioic dichloride R	9.63	1.00	0.00	1.00	1.00	1.00	10.63
394	Fluorosulfonic acid T3	9.63	1.00	0.00	2.00	1.00	1.00	10.63
395	Acrylamide * #(T3)	6.50	14.00	1.00	48.00	3.00	4.00	10.50
396	Ethyl chloride #(T3)	7.50	8.00	0.00	21.00	3.00	3.00	10.50
397	Methidathion #(T3)	8.38	4.00	0.00	9.00	2.00	2.00	10.38
398	Ammonium sulfamate * #(T3)	7.38	8.00	0.00	14.00	3.00	3.00	10.38
399	Diketene	8.38	3.00	0.00	8.00	2.00	2.00	10.38
400	Ethyl acrylate	6.38	16.00	1.00	40.00	3.00	4.00	10.38
401	Methyl acrylate #(T3)	6.38	16.00	1.00	46.00	3.00	4.00	10.38
402	Methyl hydrazine	8.38	4.00	0.00	6.00	2.00	2.00	10.38
403	Methyl isocyanate	9.38	2.00	0.00	2.00	1.00	1.00	10.38
404	Methyl methacrylate	6.38	17.00	1.00	48.00	3.00	4.00	10.38
405	Methyltrichlorosilane-E3*	7.38	3.00	0.00	15.00	3.00	3.00	10.38
406	Dimethyldichlorosilane T3	7.38	4.00	0.00	20.00	3.00	3.00	10.38

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
407	Acetyl Chloride *T3	75-36-5	125.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
408	Vinyl acetate monomer-E3*	108-05-4	500.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
409	Sodium borohydride #(T3)	16940-66-2	4.85	4.00	3.00	1.25	3.00	1.25	1.25	1.00
410	5-Methyl 3-heptanone #(I)	541-85-5	100.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
411	Chlordane * #(T3)	57-74-9	5.97	4.00	0.00	5.00	2.00	2.50	3.75	2.50
412	Stibine	7803-52-3	9.60	4.00	2.00	2.50	4.00	0.00	1.25	5.00
413	tert-Butyl chromate #(I)	1189-85-1	1.59	4.00	0.00	5.00	2.00	2.50	3.75	2.50
414	Butyltrichlorosilane SC	7521-80-4	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
415	Octyltrichlorosilane-A3* (60min)	5283-66-9	33.00	3.00	0.00	5.00	2.00	2.50	3.75	2.50
416	o-Chlorobenzylidene malononitrile * #(T3)	2698-41-1	0.26	5.00	0.00	5.00	3.00	1.25	3.13	1.00
417	p-Nitroaniline * #(T3)	100-01-6	53.10	3.00	2.00	2.50	1.00	3.75	3.13	1.00
418	Iron phosphate #(T3 as iron)	10045-86-0	214.47	2.00	0.00	5.00	0.00	5.00	5.00	1.00
419	Aldrin * #(T3)	309-00-2	1.68	4.00	0.00	5.00	0.00	5.00	5.00	1.00
420	DDT * #(T3)	50-29-3	34.49	3.00	0.00	5.00	0.00	5.00	5.00	1.00
421	Dieldrin * #(T3)	60-57-1	3.21	4.00	0.00	5.00	0.00	5.00	5.00	1.00
422	Mercuric Salicylate #(T3 of Hg)	5970-32-1	1.08	4.00	0.00	5.00	0.00	5.00	5.00	1.00
423	Tetraethyl lead #(T3)	78-00-2	4.51	4.00	2.00	2.50	2.00	2.50	2.50	2.50
424	Toxaphene #(T3 based on Keplinger 1963 study)	8001-35-2	29.53	3.00	0.00	5.00	0.00	5.00	5.00	1.00
425	2,4,5-T * #(T3)	93-76-5	23.92	3.00	0.00	5.00	0.00	5.00	5.00	1.00
426	ANTU * #(T3)	86-88-4	12.10	3.00	0.00	5.00	0.00	5.00	5.00	1.00
427	Benzoyl peroxide* #(T3)	94-36-0	50.47	3.00	4.00	0.00	4.00	0.00	0.00	1.00
428	Bromodiolone (Rat Inh. LC50)	54149-17-6	23.20	3.00	0.00	5.00	0.00	5.00	5.00	1.00
429	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	300-76-5	12.83	3.00	0.00	5.00	0.00	5.00	5.00	1.00
430	Isopropyl ether #(T3)	108-20-3	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
431	Methoxychlor * #(T3)	72-43-5	35.37	3.00	0.00	5.00	0.00	5.00	5.00	1.00
432	Pindone * #(I)	83-26-1	10.62	3.00	0.00	5.00	0.00	5.00	5.00	1.00
433	Rotenone * #(T3)	83-79-4	30.99	3.00	0.00	5.00	0.00	5.00	5.00	1.00
434	Tetryl * #(T3)	479-45-8	42.57	3.00	0.00	5.00	0.00	5.00	5.00	1.00
435	Allylamine *T3	107-11-9	18.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
436	Trimethyl phosphite-T3*	121-45-9	750.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50
437	Ethyltrichlorosilane T3	115-21-9	6.00	4.00	2.00	2.50	2.00	2.50	2.50	2.50
438	Boron trifluoride compound with methyl ether (1:1) T3	353-42-4	7.50	4.00	2.00	2.50	2.00	2.50	2.50	2.50
439	Aqua Regia *T3	8007-56-5	35.01	3.00	1.00	3.75	0.00	5.00	4.38	2.50
440	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8003-34-7	326.87	2.00	0.00	5.00	1.00	3.75	4.38	2.50
441	Thiodiglycol-Alfa MSDS*B7]	111-48-8	4150.00	0.00	0.00	5.00	1.00	3.75	4.38	2.50
442	2-methylpropene-T3*	115-11-7	100000.00	0.00	1.00	3.75	4.00	0.00	1.88	5.00
443	Trinitrophenol-T3*	88-89-1	8.00	4.00	4.00	0.00	1.00	3.75	1.88	1.00
444	1,2-dimethylimidazole LD50	1739-84-0	417.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
445	Mercury oxycyanide as Hg	1335-31-5	1.08	4.00	2.00	2.50	0.00	5.00	3.75	1.00
446	Trypan blue #(T3)	72-57-1	14.02	3.00	0.00	5.00	2.00	2.50	3.75	1.00
447	Acetaldehyde	75-07-0	840.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
448	Dipropylene glycol methyl ether #(T3)	34590-94-8	400.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
407	Acetyl Chloride *T3	6.38	10.00	1.00	37.00	3.00	4.00	10.38
408	Vinyl acetate monomer-E3*	6.38	4.00	0.00	53.00	4.00	4.00	10.38
409	Sodium borohydride #(T3)	6.25	13.00	1.00	34.00	3.00	4.00	10.25
410	5-Methyl 3-heptanone #(I)	9.25	2.00	0.00	3.00	1.00	1.00	10.25
411	Chlordane * #(T3)	10.25	0.00	0.00	0.00	0.00	0.00	10.25
412	Stibine	10.25	0.00	0.00	0.00	0.00	0.00	10.25
413	tert-Butyl chromate #(I)	10.25	0.00	0.00	0.00	0.00	0.00	10.25
414	Butyltrichlorosilane SC	9.25	2.00	0.00	4.00	1.00	1.00	10.25
415	Octyltrichlorosilane-A3* (60min)	9.25	3.00	0.00	5.00	1.00	1.00	10.25
416	o-Chlorobenzylidene malononitrile * #(T3)	9.13	1.00	0.00	1.00	1.00	1.00	10.13
417	p-Nitroaniline * #(T3)	7.13	5.00	0.00	47.00	3.00	3.00	10.13
418	Iron phosphate #(T3 as iron)	8.00	5.00	0.00	7.00	2.00	2.00	10.00
419	Aldrin * #(T3)	10.00	0.00	0.00	0.00	0.00	0.00	10.00
420	DDT * #(T3)	9.00	2.00	0.00	3.00	1.00	1.00	10.00
421	Dieldrin * #(T3)	10.00	0.00	0.00	0.00	0.00	0.00	10.00
422	Mercuric Salicylate #(T3 of Hg)	10.00	0.00	0.00	0.00	0.00	0.00	10.00
423	Tetraethyl lead #(T3)	9.00	1.00	0.00	2.00	1.00	1.00	10.00
424	Toxaphene #(T3 based on Keplinger 1963 study)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
425	2,4,5-T * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
426	ANTU * #(T3)	9.00	3.00	0.00	3.00	1.00	1.00	10.00
427	Benzoyl peroxide* #(T3)	4.00	22.00	2.00	70.00	4.00	6.00	10.00
428	Bromodiolone (Rat Inh. LC50)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
429	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	9.00	3.00	0.00	4.00	1.00	1.00	10.00
430	Isopropyl ether #(T3)	6.00	15.00	1.00	24.00	3.00	4.00	10.00
431	Methoxychlor * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
432	Pindone * #(I)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
433	Rotenone * #(T3)	9.00	2.00	0.00	2.00	1.00	1.00	10.00
434	Tetryl * #(T3)	9.00	1.00	0.00	1.00	1.00	1.00	10.00
435	Allylamine *T3	8.00	5.00	0.00	9.00	2.00	2.00	10.00
436	Trimethyl phosphite-T3*	7.00	4.00	0.00	18.00	3.00	3.00	10.00
437	Ethyltrichlorosilane T3	9.00	1.00	0.00	2.00	1.00	1.00	10.00
438	Boron trifluoride compound with methyl ether (1:1) T3	9.00	2.00	0.00	5.00	1.00	1.00	10.00
439	Aqua Regia *T3	9.88	0.00	0.00	0.00	0.00	0.00	9.88
440	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8.88	4.00	0.00	4.00	1.00	1.00	9.88
441	Thiodiglycol-Alfa MSDS*B7]	6.88	9.00	0.00	12.00	3.00	3.00	9.88
442	2-methylpropene-T3*	6.88	3.00	0.00	40.00	3.00	3.00	9.88
443	Trinitrophenol-T3*	6.88	8.00	0.00	18.00	3.00	3.00	9.88
444	1,2-dimethylimidazole LD50	6.75	5.00	0.00	11.00	3.00	3.00	9.75
445	Mercury oxycyanide as Hg	8.75	2.00	0.00	2.00	1.00	1.00	9.75
446	Trypan blue #(T3)	7.75	6.00	0.00	10.00	2.00	2.00	9.75
447	Acetaldehyde	5.75	15.00	1.00	49.00	3.00	4.00	9.75
448	Dipropylene glycol methyl ether #(T3)	6.75	7.00	0.00	35.00	3.00	3.00	9.75

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
449	Methyl Cellosolve (r) acetate #(I)	110-49-6	200.00	2.00	0.00	5.00	2.00	2.50	3.75	1.00
450	Calcium phosphide SC	1305-99-3	1.80	4.00	2.00	2.50	0.00	5.00	3.75	1.00
451	Trichlorosilane-E3*	10025-78-2	25.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
452	Aluminum bromide, anhydrous as AlCl3	7727-15-3	44.84	3.00	2.00	2.50	0.00	5.00	3.75	1.00
453	Nickel Carbonyl-T3*	13463-39-3	0.16	5.00	3.00	1.25	3.00	1.25	1.25	2.50
454	2-Pentanone #(T3)	107-87-9	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
455	Cyclohexene #(T3)	110-83-8	2000.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
456	Ethyl formate #(I)	109-94-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
457	Glycidol #(I)	556-52-5	150.00	2.00	2.00	2.50	1.00	3.75	3.13	2.50
458	Methyl acetate #(I)	79-20-9	3100.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
459	Methylcyclohexane #(T3)	108-87-2	1200.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
460	n-Butyl mercaptan #(T3)	109-79-5	500.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
461	Turpentine #(T3)	8006-64-2	800.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
462	Isobutyronitrile-E3*	78-82-0	200.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
463	Methyl thiocyanate-T3*	1556-64-9	28.40	3.00	1.00	3.75	2.00	2.50	3.13	2.50
464	Dodecyltrichlorosilane Sc	4484-72-41	33.00	3.00	2.00	2.50	1.00	3.75	3.13	2.50
465	Bromine pentafluoride T3	7789-30-2	35.00	3.00	3.00	1.25	0.00	5.00	3.13	2.50
466	Bromine trifluoride T3	7787-71-5	89.30	3.00	3.00	1.25	0.00	5.00	3.13	2.50
467	Germane T3	7782-65-2	150.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
468	Silane-T3*	7803-62-5	4000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
469	p-Nitrochlorobenzene * #(T3)	100-00-5	15.52	3.00	3.00	1.25	1.00	3.75	2.50	1.00
470	Difluorodibromomethane #(I)	75-61-6	2000.00	1.00	0.00	5.00	0.00	5.00	5.00	2.50
471	Dinitrotoluene * #(T3)	25321-14-6	6.70	4.00	3.00	1.25	1.00	3.75	2.50	1.00
472	2-Butene T3	107-01-7	300.00	2.00	0.00	5.00	4.00	0.00	2.50	5.00
473	2-Butene-trans T3	624-64-6	25000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
474	2-Butene-cis T3	590-18-1	500000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
475	1,1-Dimethylhydrazine	57-14-7	11.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
476	Hexachlorobenzene	118-74-1	17.17	3.00	1.00	3.75	0.00	5.00	4.38	1.00
477	Mercuri arsenate #(T3 of Hg)	7784-37-4	1.08	4.00	1.00	3.75	0.00	5.00	4.38	1.00
478	Chlorinated camphene * #(T3)	8001-35-2	11.80	3.00	0.00	5.00	1.00	3.75	4.38	1.00
479	Crotonaldehyde	4170-30-3	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
480	Terphenyls * #(I)	92-06-8; 84-15-1; 92-94-4	53.08	3.00	0.00	5.00	1.00	3.75	4.38	1.00
481	Tetranitromethane	509-14-8	1.70	4.00	1.00	3.75	4.00	0.00	1.88	2.50
482	Tetramethylsilane-T3*	75-76-3	125.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
483	Trimethylchlorosilane-E3*	75-77-44	150.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
484	Isoflurane #(IDLH of halogenated ethers-general)	26675-46-7	2000.00	1.00	1.00	3.75	1.00	3.75	3.75	2.50
485	Cyclopentadiene #(I)	542-92-7	750.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
486	Ethyl butyl ketone #(T3)	106-35-4	1000.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
487	Methylcyclohexanol #(I)	25639-42-3	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
488	o-Methylcyclohexanone #(T3)	583-60-8	600.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
489	Aluminum phosphide *T3	20859-73-8	8.44	4.00	2.00	2.50	4.00	0.00	1.25	1.00
490	Hydrazine	302-01-2	35.00	3.00	3.00	1.25	4.00	0.00	0.63	2.50
491	Crag (r) herbicide #(T3)	136-78-7	39.55	3.00	0.00	5.00	0.00	5.00	5.00	1.00
492	Azinphos-ethyl*T3	2642-71-9	10.63	3.00	0.00	5.00	0.00	5.00	5.00	1.00
493	beta-Chloroprene #(T3)	126-99-8	300.00	2.00	1.00	3.75	3.00	1.25	2.50	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
449	Methyl Cellosolve (r) acetate #(I)	6.75	6.00	0.00	12.00	3.00	3.00	9.75
450	Calcium phosphide SC	8.75	1.00	0.00	1.00	1.00	1.00	9.75
451	Trichlorosilane-E3*	6.75	4.00	0.00	15.00	3.00	3.00	9.75
452	Aluminum bromide, anhydrous as AlCl3	7.75	2.00	0.00	6.00	2.00	2.00	9.75
453	Nickel Carbonyl-T3*	8.75	1.00	0.00	2.00	1.00	1.00	9.75
454	2-Pentanone #(T3)	6.63	8.00	0.00	13.00	3.00	3.00	9.63
455	Cyclohexene #(T3)	6.63	9.00	0.00	14.00	3.00	3.00	9.63
456	Ethyl formate #(I)	6.63	6.00	0.00	16.00	3.00	3.00	9.63
457	Glycidol #(I)	7.63	4.00	0.00	6.00	2.00	2.00	9.63
458	Methyl acetate #(I)	5.63	15.00	1.00	33.00	3.00	4.00	9.63
459	Methylcyclohexane #(T3)	6.63	9.00	0.00	17.00	3.00	3.00	9.63
460	n-Butyl mercaptan #(T3)	7.63	4.00	0.00	6.00	2.00	2.00	9.63
461	Turpentine #(T3)	7.63	6.00	0.00	9.00	2.00	2.00	9.63
462	Isobutyronitrile-E3*	7.63	3.00	0.00	6.00	2.00	2.00	9.63
463	Methyl thiocyanate-T3*	8.63	1.00	0.00	2.00	1.00	1.00	9.63
464	Dodecyltrichlorosilane Sc	8.63	1.00	0.00	3.00	1.00	1.00	9.63
465	Bromine pentafluoride T3	8.63	1.00	0.00	3.00	1.00	1.00	9.63
466	Bromine trifluoride T3	8.63	2.00	0.00	2.00	1.00	1.00	9.63
467	Germane T3	7.63	2.00	0.00	6.00	2.00	2.00	9.63
468	Silane-T3*	5.63	16.00	1.00	30.00	3.00	4.00	9.63
469	p-Nitrochlorobenzene * #(T3)	6.50	6.00	0.00	25.00	3.00	3.00	9.50
470	Difluorodibromomethane #(I)	8.50	2.00	0.00	3.00	1.00	1.00	9.50
471	Dinitrotoluene * #(T3)	7.50	6.00	0.00	9.00	2.00	2.00	9.50
472	2-Butene T3	9.50	1.00	0.00	0.00	0.00	0.00	9.50
473	2-Butene-trans T3	7.50	1.00	0.00	6.00	2.00	2.00	9.50
474	2-Butene-cis T3	7.50	1.00	0.00	8.00	2.00	2.00	9.50
475	1,1-Dimethylhydrazine	7.38	7.00	0.00	9.00	2.00	2.00	9.38
476	Hexachlorobenzene	8.38	1.00	0.00	2.00	1.00	1.00	9.38
477	Mercuri arsenate #(T3 of Hg)	9.38	0.00	0.00	0.00	0.00	0.00	9.38
478	Chlorinated camphene * #(T3)	8.38	1.00	0.00	1.00	1.00	1.00	9.38
479	Crotonaldehyde	7.38	6.00	0.00	9.00	2.00	2.00	9.38
480	Terphenyls * #(I)	8.38	4.00	0.00	5.00	1.00	1.00	9.38
481	Tetranitromethane	8.38	1.00	0.00	1.00	1.00	1.00	9.38
482	Tetramethylsilane-T3*	6.38	6.00	0.00	15.00	3.00	3.00	9.38
483	Trimethylchlorosilane-E3*	6.38		0.00	30.00	3.00	3.00	9.38
484	Isoflurane #(IDLH of halogenated ethers-general)	7.25	2.00	0.00	8.00	2.00	2.00	9.25
485	Cyclopentadiene #(I)	8.25	2.00	0.00	2.00	1.00	1.00	9.25
486	Ethyl butyl ketone #(T3)	8.25	2.00	0.00	4.00	1.00	1.00	9.25
487	Methylcyclohexanol #(I)	8.25	1.00	0.00	1.00	1.00	1.00	9.25
488	o-Methylcyclohexanone #(T3)	8.25	4.00	0.00	5.00	1.00	1.00	9.25
489	Aluminum phosphide *T3	6.25	2.00	0.00	17.00	3.00	3.00	9.25
490	Hydrazine	6.13	9.00	0.00	12.00	3.00	3.00	9.13
491	Crag (r) herbicide #(T3)	9.00	0.00	0.00	0.00	0.00	0.00	9.00
492	Azinphos-ethyl *T3	9.00	0.00	0.00	0.00	0.00	0.00	9.00
493	beta-Chloroprene #(T3)	7.00	4.00	0.00	6.00	2.00	2.00	9.00

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
494	Ethylene glycol dinitrate #(I)	628-96-6	12.06	3.00	0.00	5.00	4.00	0.00	2.50	2.50
495	Methylal #(T3)	109-87-5	2200.00	0.00	1.00	3.75	3.00	1.25	2.50	2.50
496	Ronnel #(I)	299-84-3	22.81	3.00	0.00	5.00	0.00	5.00	5.00	1.00
497	tert-Butyl acetate #(T3)	540-88-5	1500.00	1.00	0.00	5.00	4.00	0.00	2.50	2.50
498	Isopentane-T3*	78-78-4	20000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
499	Propyltrichlorosilane-A3* (60 min)	141-57-1	33.00	3.00	1.00	3.75	3.00	1.25	2.50	2.50
500	Hexyltrichlorosilane T3	928-65-4	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
501	Octadecyltrichlorosilane-A3* (60min)	112-04-9	33.00	3.00	2.00	2.50	2.00	2.50	2.50	2.50
502	Ethyl nitrite T3	109-95-5	60.00	3.00	4.00	0.00	4.00	0.00	0.00	5.00
503	Diglycidyl ether #(T3)	2238-07-5	10.00	4.00	4.00	0.00	2.00	2.50	1.25	2.50
504	Ethyleneimine	151-56-4	9.90	4.00	3.00	1.25	3.00	1.25	1.25	2.50
505	Pentaborane	19624-22-7	0.70	5.00	2.00	2.50	4.00	0.00	1.25	2.50
506	Tetramethyl succinonitrile #(I)	3333-52-6	5.00	4.00	0.00	5.00	2.00	2.50	3.75	1.00
507	Vinylidene chloride, inhibited-T3*	75-35-4	600.00	2.00	2.00	2.50	4.00	0.00	1.25	2.50
508	Tetramethyllead-T3*	75-74-1	4.57	4.00	3.00	1.25	3.00	1.25	1.25	2.50
509	sec-Amyl acetate #(T3)	626-38-0	1000.00	2.00	0.00	5.00	3.00	1.25	3.13	2.50
510	Trifluorochloroethylene-E3*	79-38-9	300.00	2.00	3.00	1.25	4.00	0.00	0.63	5.00
511	Lithium #(T3)	7439-93-2	1409.20	1.00	2.00	2.50	2.00	2.50	2.50	1.00
512	Decaborane * #(T3)	17702-41-9	3.00	4.00	2.00	2.50	2.00	2.50	2.50	1.00
513	Morpholine #(T3)	110-91-8	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	1.00
514	Dimethylpropane, 2,2- T3	463-82-1	50000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
515	Cyclopropane T3	75-19-4	60000.00	0.00	0.00	5.00	4.00	0.00	2.50	5.00
516	Diethyleneglycol dinitrate R	693-21-0	0.31	5.00	4.00	0.00	4.00	0.00	0.00	2.50
517	Ammonium perchlorate T3	7790-98-9	104.05	2.00	4.00	0.00	0.00	5.00	2.50	1.00
518	2-Nitropropane #(T3)	79-46-9	100.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
519	Furan T3	110-00-9	19.00	3.00	1.00	3.75	4.00	0.00	1.88	2.50
520	Crotonaldehyde, (E)- T3	123-73-9	14.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
521	Allyltrichlorosilane, stabilized as allyl chloride	107-37-9	20.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
522	Methacrylonitrile-T3*	126-98-7	25.00	3.00	2.00	2.50	3.00	1.25	1.88	2.50
523	1,3- pentadiene-R*B97	504-60-9	280.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
524	sec Hexyl acetate #(I)	108-84-9	500.00	2.00	0.00	5.00	2.00	2.50	3.75	2.50
525	Propadiene-T3*	463-49-0	4000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
526	Vinylidene fluoride-T3*	75-38-7	12500.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
527	Nitromethane #(T3)	75-52-5	750.00	2.00	4.00	0.00	3.00	1.25	0.63	2.50
528	Trinitrotoluene	118-96-7	55.32	3.00	4.00	0.00	4.00	0.00	0.00	1.00
529	Mesityl oxide #(T3)	141-79-7	1400.00	1.00	1.00	3.75	3.00	1.25	2.50	2.50
530	Methyl formate #(T3)	107-31-3	4500.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
531	Vinyl toluene #(I)	25013-15-4	400.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
532	Isopropyl chloride-T3*	75-29-6	15000.00	0.00	0.00	5.00	4.00	0.00	2.50	2.50
533	Amyltrichlorosilane R	107-72-2	500.00	2.00	2.00	2.50	2.00	2.50	2.50	2.50
534	Lithium nitride-T3*	26134-62-3	7.02	4.00	2.00	2.50	3.00	1.25	1.88	1.00
535	Nitroethane #(T3)	79-24-3	1000.00	2.00	3.00	1.25	3.00	1.25	1.25	2.50
536	Propylene imine	75-55-8	23.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
537	Penterythrite tetrinitrate #(T3)	78-11-5	38.97	3.00	4.00	0.00	3.00	1.25	0.63	1.00
538	2-Hexanone #(T3)	591-78-6	1600.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
539	sec-Butyl acetate #(T3)	105-46-4	1500.00	1.00	0.00	5.00	3.00	1.25	3.13	2.50
540	Tetrafluoroethylene-E3*	116-14-3	10000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
494	Ethylene glycol dinitrate #(I)	8.00	3.00	0.00	3.00	1.00	1.00	9.00
495	Methylal #(T3)	5.00	10.00	1.00	13.00	3.00	4.00	9.00
496	Ronnel #(I)	9.00	0.00	0.00	0.00	0.00	0.00	9.00
497	tert-Butyl acetate #(T3)	6.00	6.00	0.00	17.00	3.00	3.00	9.00
498	Isopentane-T3*	5.00	17.00	1.00	29.00	3.00	4.00	9.00
499	Propyltrichlorosilane-A3* (60 min)	8.00	2.00	0.00	5.00	1.00	1.00	9.00
500	Hexyltrichlorosilane T3	8.00	2.00	0.00	3.00	1.00	1.00	9.00
501	Octadecyltrichlorosilane-A3* (60min)	8.00	2.00	0.00	5.00	1.00	1.00	9.00
502	Ethyl nitrite T3	8.00	1.00	0.00	1.00	1.00	1.00	9.00
503	Diglycidyl ether #(T3)	7.75	1.00	0.00	1.00	1.00	1.00	8.75
504	Ethyleneimine	7.75	3.00	0.00	3.00	1.00	1.00	8.75
505	Pentaborane	8.75	0.00	0.00	0.00	0.00	0.00	8.75
506	Tetramethyl succinonitrile #(I)	8.75	0.00	0.00	0.00	0.00	0.00	8.75
507	Vinylidene chloride, inhibited-T3*	5.75	2.00	0.00	12.00	3.00	3.00	8.75
508	Tetramethyllead-T3*	7.75	2.00	0.00	2.00	1.00	1.00	8.75
509	sec-Amyl acetate #(T3)	7.63	2.00	0.00	2.00	1.00	1.00	8.63
510	Trifluorochloroethylene-E3*	7.63	1.00	0.00	5.00	1.00	1.00	8.63
511	Lithium #(T3)	4.50	11.00	1.00	23.00	3.00	4.00	8.50
512	Decaborane * #(T3)	7.50	2.00	0.00	1.00	1.00	1.00	8.50
513	Morpholine #(T3)	4.50	12.00	1.00	32.00	3.00	4.00	8.50
514	Dimethylpropane, 2,2- T3	7.50	1.00	0.00	4.00	1.00	1.00	8.50
515	Cyclopropane T3	7.50	1.00	0.00	3.00	1.00	1.00	8.50
516	Diethyleneglycol dinitrate R	7.50	2.00	0.00	4.00	1.00	1.00	8.50
517	Ammonium perchlorate T3	5.50	2.00	0.00	16.00	3.00	3.00	8.50
518	2-Nitropropane #(T3)	7.38	2.00	0.00	4.00	1.00	1.00	8.38
519	Furan T3	7.38	3.00	0.00	5.00	1.00	1.00	8.38
520	Crotonaldehyde, (E)- T3	7.38	1.00	0.00	2.00	1.00	1.00	8.38
521	Allyltrichlorosilane, stabilized as allyl chloride	7.38	1.00	0.00	3.00	1.00	1.00	8.38
522	Methacrylonitrile-T3*	7.38	1.00	0.00	1.00	1.00	1.00	8.38
523	1,3- pentadiene-R*B97	6.38	7.00	0.00	10.00	2.00	2.00	8.38
524	sec Hexyl acetate #(I)	8.25	0.00	0.00	0.00	0.00	0.00	8.25
525	Propadiene-T3*	6.25	3.00	0.00	6.00	2.00	2.00	8.25
526	Vinylidene fluoride-T3*	6.25	2.00	0.00	8.00	2.00	2.00	8.25
527	Nitromethane #(T3)	5.13	7.00	0.00	20.00	3.00	3.00	8.13
528	Trinitrotoluene	4.00	11.00	1.00	17.00	3.00	4.00	8.00
529	Mesityl oxide #(T3)	6.00	5.00	0.00	6.00	2.00	2.00	8.00
530	Methyl formate #(T3)	5.00	8.00	0.00	16.00	3.00	3.00	8.00
531	Vinyl toluene #(I)	7.00	1.00	0.00	3.00	1.00	1.00	8.00
532	Isopropyl chloride-T3*	5.00	1.00	0.00	13.00	3.00	3.00	8.00
533	Amyltrichlorosilane R	7.00	1.00	0.00	2.00	1.00	1.00	8.00
534	Lithium nitride-T3*	6.88	1.00	0.00	5.00	1.00	1.00	7.88
535	Nitroethane #(T3)	5.75	3.00	0.00	8.00	2.00	2.00	7.75
536	Propylene imine	6.75	3.00	0.00	4.00	1.00	1.00	7.75
537	Penterythrite tetrinitrate #(T3)	4.63	9.00	0.00	12.00	3.00	3.00	7.63
538	2-Hexanone #(T3)	6.63	2.00	0.00	3.00	1.00	1.00	7.63
539	sec-Butyl acetate #(T3)	6.63	2.00	0.00	2.00	1.00	1.00	7.63
540	Tetrafluoroethylene-E3*	5.63	3.00	0.00	6.00	2.00	2.00	7.63

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Reactivity Number	Reactivity Score	Flammability Number	Flammability Score	Stability Score	Physical State
541	Coniline (R-2-ethylpiperidine) #(T3 as piperidine)	22160-08-3	110.00	2.00	0.00	5.00	1.00	3.75	4.38	1.00
542	1,2-Dichloroethylene #(T3)	540-59-0	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
543	1-Chloro-1-nitropropane #(I)	600-25-9	100.00	3.00	3.00	1.25	2.00	2.50	1.88	2.50
544	1-Nitropropane #(I)	108-03-2	1000.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
545	Ethyl mercaptan	75-08-1	360.00	2.00	1.00	3.75	4.00	0.00	1.88	2.50
546	Isopropyl glycidyl ether #(I)	4016-14-2	400.00	2.00	2.00	2.50	3.00	1.25	1.88	2.50
547	Methyldichlorosilane-R*	75-54-7	1200.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
548	Vinyltrichlorosilane-R*	75-94-5	2000.00	1.00	2.00	2.50	3.00	1.25	1.88	2.50
549	Vinyl fluoride-T3*	75-02-5	150000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
550	Magnesium phosphide- Rentokil MSDS*	12057-74-8	2.40	4.00	2.00	2.50	4.00	0.00	1.25	1.00
551	Vinyl methyl ether-R*	107-25-5	64000.00	0.00	2.00	2.50	4.00	0.00	1.25	5.00
552	Methoxyflurane #(IDLH of halogenated ethers-general)	76-38-0	2000.00	1.00	0.00	5.00	2.00	2.50	3.75	1.00
553	Acetyl Iodide (as acetyl bromide) T3	507-02-8	20.00	3.00	2.00	2.50	4.00	0.00	1.25	2.50
554	Vinyl ethyl ether-T3*	109-92-2	1500.00	1.00	2.00	2.50	4.00	0.00	1.25	2.50
555	Isoprene-T3*	78-79-5	25000.00	0.00	2.00	2.50	4.00	0.00	1.25	2.50
556	1,1-Dichloroethane #(T3)	75-34-3	3000.00	0.00	0.00	5.00	3.00	1.25	3.13	2.50
557	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	18810-58-7	1.38	4.00	3.00	1.25	4.00	0.00	0.63	1.00
558	Ethyl acetylene (as ethylene)	107-00-6	15000.00	0.00	3.00	1.25	4.00	0.00	0.63	5.00
559	2-Chloropropylene T3	557-98-2	35000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
560	Trinitrochlorobenzene-T3*	88-88-0	24.69	3.00	3.00	1.25	3.00	1.25	1.25	1.00
561	Methyl acetylene #(T3)	74-99-7	1700.00	1.00	3.00	1.25	4.00	0.00	0.63	2.50
562	Ammonium Picrate T3	131-74-8	24.83	3.00	3.00	1.25	4.00	0.00	0.63	1.00
563	HMX T3	2691-41-0	41.28	3.00	3.00	1.25	4.00	0.00	0.63	1.00
564	1-Chloropropylene R	590-21-6	8000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
565	1-pentene-T3*	109-67-1	30000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
566	2-Methyl-1-butene-T3*	563-46-2	500000.00	0.00	1.00	3.75	4.00	0.00	1.88	2.50
567	Diethyldichlorosilane R	1719-53-5	4668.58	0.00	2.00	2.50	3.00	1.25	1.88	2.50
568	Dinitrophenol, Dry or wet T3	25550-58-7 (51-28-5)	3.32	4.00	4.00	0.00	4.00	0.00	0.00	1.00
569	n-Propyl nitrate #(T3)	627-13-4	1160.00	1.00	3.00	1.25	3.00	1.25	1.25	2.50
570	Vinyl acetylene-R*	689-97-4	105000.00	0.00	3.00	1.25	4.00	0.00	0.63	2.50

Rank	Chemical	Toxic (Operational) Hazard Score	DWCP Data				Probability Section	Total Score
			# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score		
541	Comline (R-2-ethylpiperidine) #(T3 as piperidine)	7.38	0.00	0.00	0.00	0.00	0.00	7.38
542	1,2-Dichloroethylene #(T3)	6.38	2.00	0.00	2.00	1.00	1.00	7.38
543	1-Chloro-1-nitropropane #(I)	7.38	2.00	0.00	0.00	0.00	0.00	7.38
544	1-Nitropropane #(I)	6.38	3.00	0.00	4.00	1.00	1.00	7.38
545	Ethyl mercaptan	6.38	4.00	0.00	5.00	1.00	1.00	7.38
546	Isopropyl glycidyl ether #(I)	6.38	1.00	0.00	1.00	1.00	1.00	7.38
547	Methyldichlorosilane-R*	5.38	2.00	0.00	9.00	2.00	2.00	7.38
548	Vinyltrichlorosilane-R*	5.38	3.00	0.00	8.00	2.00	2.00	7.38
549	Vinyl fluoride-T3*	6.25	1.00	0.00	2.00	1.00	1.00	7.25
550	Magnesium phosphide- Rentokil MSDS*	6.25	2.00	0.00	5.00	1.00	1.00	7.25
551	Vinyl methyl ether-R*	6.25	1.00	0.00	3.00	1.00	1.00	7.25
552	Methoxyflurane #(IDLH of halogenated ethers-general)	5.75	1.00	0.00	3.00	1.00	1.00	6.75
553	Acetyl Iodide (as acetyl bromide) T3	6.75	0.00	0.00	0.00	0.00	0.00	6.75
554	Vinyl ethyl ether-T3*	4.75	3.00	0.00	8.00	2.00	2.00	6.75
555	Isoprene-T3*	3.75	6.00	0.00	17.00	3.00	3.00	6.75
556	1,1-Dichloroethane #(T3)	5.63	3.00	0.00	3.00	1.00	1.00	6.63
557	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	5.63	1.00	0.00	3.00	1.00	1.00	6.63
558	Ethyl acetylene (as ethylene)	5.63	2.00	0.00	3.00	1.00	1.00	6.63
559	2-Chloropropylene T3	4.38	1.00	0.00	6.00	2.00	2.00	6.38
560	Trinitrochlorobenzene-T3*	5.25	1.00	0.00	1.00	1.00	1.00	6.25
561	Methyl acetylene #(T3)	4.13	4.00	0.00	7.00	2.00	2.00	6.13
562	Ammonium Picrate T3	4.63	1.00	0.00	1.00	1.00	1.00	5.63
563	HMX T3	4.63	1.00	0.00	2.00	1.00	1.00	5.63
564	1-Chloropropylene R	4.38	2.00	0.00	2.00	1.00	1.00	5.38
565	1-pentene-T3*	4.38	3.00	0.00	5.00	1.00	1.00	5.38
566	2-Methyl-1-butene-T3*	4.38	1.00	0.00	4.00	1.00	1.00	5.38
567	Diethyldichlorosilane R	4.38	1.00	0.00	2.00	1.00	1.00	5.38
568	Dinitrophenol, Dry or wet T3	5.00	0.00	0.00	0.00	0.00	0.00	5.00
569	n-Propyl nitrate #(T3)	4.75	0.00	0.00	0.00	0.00	0.00	4.75
570	Vinyl acetylene-R*	3.13	1.00	0.00	1.00	1.00	1.00	4.13

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
1	Chlorine	7782-50-5	20.00	3.00	5.00	7600.00	2.49	0.87	330.84
2	Ammonia	7664-41-7	1100.00	1.00	4.38	4802.00	1.20	0.42	1.83
3	Hydrogen chloride	7647-01-0	100.00	3.00	4.38	32452.00	3.50	1.22	397.14
4	Calcium Carbonate #(T3)	471-34-1	3.66	4.00	5.00	0.00	0.00	0.00	0.00
5	Hydrogen fluoride	7664-39-3	44.00	3.00	4.38	783.00	3.50	1.22	21.78
6	Calcium chloride	10043-52-4	88.19	3.00	5.00	0.01	0.00	0.00	0.00
7	Ammonium Chloride	12125-02-9	228.00	2.00	4.38	1.00	1.90	0.66	0.00
8	Sulfuric acid	7664-93-9	7.47	4.00	3.75	1.00	3.40	1.19	0.16
9	Sodium Sulfate #(T3)	7757-82-6	21.52	3.00	5.00	0.00	0.00	0.00	0.00
10	Silica #(T3)	7631-86-9	203.72	2.00	5.00	0.00	0.00	0.00	0.00
11	Sodium bicarbonate #(T3)	144-55-8	145.00	2.00	5.00	0.00	0.00	0.00	0.00
12	Sodium hydroxide #(E3)	1310-73-2	30.56	3.00	4.38	0.00	0.00	0.00	0.00
13	Calcium Hydroxide #(T3)	1305-62-0	165.00	2.00	4.38	0.00	2.50	0.87	0.00
14	Copper sulfate #(T3)	7758-98-7	3.92	4.00	5.00	7.30	0.00	0.00	0.00
15	Nitric acid	7697-37-2	92.00	3.00	5.00	48.00	2.17	0.76	0.40
16	Dibasic sodium phosphate	10039-32-4	25.83	3.00	5.00	0.00	4.90	1.71	0.00
17	Magnesium Oxide #(T3)	1309-48-4	303.35	2.00	5.00	0.00	0.00	0.00	0.00
18	Formaldehyde (Formalin solution-37%)	50-00-0	25.00	3.00	3.75	761.00	1.00	0.35	10.64
19	Arsenic Trioxide	1327-53-3	1.12	4.00	5.00	66.10	0.00	0.00	0.00
20	Mercury	7439-97-6	1.08	4.00	5.00	0.00	7.00	2.45	0.00
21	Sulfur dioxide	7446-09-5	30.00	3.00	5.00	2432.00	2.26	0.79	64.06
22	Phosphoric acid *(T3)	7664-38-2	124.70	2.00	5.00	0.03	3.40	1.19	0.00
23	Ethyl alcohol #(T3)	64-17-5	3300.00	0.00	3.13	40.00	1.59	0.56	0.01
24	Sodium cyanide #(T3)	143-33-9	19.96	3.00	5.00	1.00	1.70	0.59	0.03
25	Sodium chloride #(T3)	7647-14-5	209.19	2.00	5.00	1.00	0.00	0.00	0.00
26	Cobalt dichloride #(T3)	7646-79-9	51.39	3.00	5.00	40.00	4.50	1.57	1.22
27	Sodium Nitrate #(T3)	7631-99-4	28.77	3.00	3.75	0.00	0.00	0.00	0.00
28	Acetic acid #(T3)	64-19-7	250.00	2.00	3.75	11.40	2.07	0.72	0.03
29	Hydrogen cyanide	74-90-8	15.00	3.00	1.25	620.00	0.95	0.33	13.69
30	Ammonium nitrate, no organic coating T3	6484-52-2	152.73	2.00	3.13	0.00	0.00	0.00	0.00
31	Ammonium nitrate, with organic coating	6484-52-2	152.73	2.00	3.13	0.00	0.00	0.00	0.00
32	Methomyl	16752-77-5	30.13	3.00	5.00	0.00	1.29	0.45	0.00
33	Gypsum #(T3 as K ₂ CO ₃)	13397-24-5	88.39	3.00	5.00	0.00	0.00	0.00	0.00
34	Hydrogen bromide	10035-10-6	120.00	2.00	5.00	15200.00	3.50	1.22	155.01
35	Phosgene	75-44-5	0.75	5.00	4.38	1215.00	3.40	1.19	1925.87
36	Benzene	71-43-2	4000.00	0.00	3.13	76.00	2.77	0.97	0.02
37	Methyl alcohol	67-56-1	7200.00	0.00	3.13	100.00	1.11	0.39	0.01
38	Toluene	108-88-3	4500.00	0.00	3.13	20.00	3.14	1.10	0.00
39	Acetylene *T3	74-86-2	6000.00	0.00	0.63	33591.99	0.90	0.31	1.76
40	Chlorpyrifos #(T3)	2921-88-2	5.23	4.00	5.00	0.00	12.09	4.23	0.00
41	Zinc	7440-66-6	74.79	3.00	5.00	1.00	0.00	0.00	0.00
42	Sodium dodecyl sulfate #(T3)	151-21-3	42.39	3.00	5.00	0.00	0.00	0.00	0.00
43	Isobutane-T3*	75-28-5	15000.00	0.00	2.50	2356.00	2.00	0.70	0.11
44	Hydrogen T3	1333-74-0	500000.00	0.00	2.50	8517.24	0.07	0.02	0.00
45	Sodium chlorate	7775-09-9	17.22	3.00	3.75	0.00	0.00	0.00	0.00
46	Lindane * #(T3)	58-89-9	4.20	4.00	5.00	0.00	1.10	0.38	0.00
47	Nitric oxide #(I)	10102-43-9	20.00	3.00	5.00	26000.00	1.04	0.36	472.73
48	Bromine	7726-95-6	8.50	4.00	5.00	172.00	2.40	0.84	16.98
49	Potassium dichromate #(T3)	7778-50-9	3.32	4.00	4.38	0.00	0.00	0.00	0.00

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
1	Chlorine	3.00	8.00	63.00	5.00	344.00	5.00	10.00	5.00	23.00	
2	Ammonia	2.00	6.38	56.00	5.00	348.00	5.00	10.00	5.00	21.38	
3	Hydrogen chloride	3.00	7.38	63.00	5.00	528.00	5.00	10.00	0.50	17.88	
4	Calcium Carbonate #(T3)	0.00	5.00	52.00	5.00	309.00	5.00	10.00	2.50	17.50	
5	Hydrogen fluoride	3.00	7.38	25.00	2.00	138.00	5.00	7.00	2.50	16.88	
6	Calcium chloride	0.00	5.00	43.00	4.00	208.00	5.00	9.00	2.50	16.50	
7	Ammonium Chloride	0.00	4.38	25.00	2.00	141.00	5.00	7.00	5.00	16.38	
8	Sulfuric acid	0.00	3.75	66.00	5.00	544.00	5.00	10.00	2.50	16.25	
9	Sodium Sulfate #(T3)	0.00	5.00	36.00	3.00	200.00	5.00	8.00	2.50	15.50	
10	Silica #(T3)	0.00	5.00	30.00	3.00	131.00	5.00	8.00	2.50	15.50	
11	Sodium bicarbonate #(T3)	0.00	5.00	30.00	3.00	138.00	5.00	8.00	2.50	15.50	
12	Sodium hydroxide #(E3)	0.00	4.38	64.00	5.00	477.00	5.00	10.00	0.50	14.88	
13	Calcium Hydroxide #(T3)	0.00	4.38	38.00	3.00	144.00	5.00	8.00	2.50	14.88	
14	Copper sulfate #(T3)	0.00	5.00	29.00	2.00	188.00	5.00	7.00	2.50	14.50	
15	Nitric acid	0.00	5.00	49.00	4.00	226.00	5.00	9.00	0.50	14.50	
16	Dibasic sodium phosphate	0.00	5.00	22.00	2.00	125.00	5.00	7.00	2.50	14.50	
17	Magnesium Oxide #(T3)	0.00	5.00	28.00	2.00	134.00	5.00	7.00	2.50	14.50	
18	Formaldehyde (Formalin solution-37%)	3.00	6.75	53.00	5.00	260.00	5.00	10.00	0.50	17.25	
19	Arsenic Trioxide	0.00	5.00	10.00	1.00	18.00	3.00	4.00	5.00	14.00	
20	Mercury	0.00	5.00	14.00	1.00	24.00	3.00	4.00	5.00	14.00	
21	Sulfur dioxide	3.00	8.00	27.00	2.00	79.00	4.00	6.00	0.00	14.00	
22	Phosphoric acid *(T3)	0.00	5.00	49.00	4.00	245.00	5.00	9.00	0.00	14.00	
23	Ethyl alcohol #(T3)	0.00	3.13	51.00	5.00	321.00	5.00	10.00	0.50	13.63	
24	Sodium cyanide #(T3)	0.00	5.00	21.00	2.00	52.00	4.00	6.00	2.50	13.50	
25	Sodium chloride #(T3)	0.00	5.00	38.00	3.00	175.00	5.00	8.00	0.50	13.50	
26	Cobalt dichloride #(T3)	2.00	7.00	22.00	2.00	90.00	4.00	6.00	0.50	13.50	
27	Sodium Nitrate #(T3)	0.00	3.75	23.00	2.00	124.00	5.00	7.00	2.50	13.25	
28	Acetic acid #(T3)	0.00	3.75	40.00	4.00	186.00	5.00	9.00	0.50	13.25	
29	Hydrogen cyanide	3.00	4.25	13.00	1.00	25.00	3.00	4.00	5.00	13.25	
30	Ammonium nitrate, no organic coating T3	0.00	3.13	52.00	5.00	182.00	5.00	10.00	0.00	13.13	
31	Ammonium nitrate, with organic coating	0.00	3.13	52.00	5.00	182.00	5.00	10.00	0.00	13.13	
32	Methomyl	0.00	5.00	9.00	0.00	46.00	3.00	3.00	5.00	13.00	
33	Gypsum #(T3 as K ₂ CO ₃)	0.00	5.00	36.00	3.00	127.00	5.00	8.00	0.00	13.00	
34	Hydrogen bromide	3.00	8.00	16.00	1.00	73.00	4.00	5.00	0.00	13.00	
35	Phosgene	4.00	8.38	10.00	1.00	22.00	3.00	4.00	0.50	12.88	
36	Benzene	0.00	3.13	42.00	4.00	291.00	5.00	9.00	0.50	12.63	
37	Methyl alcohol	0.00	3.13	47.00	4.00	268.00	5.00	9.00	0.50	12.63	
38	Toluene	0.00	3.13	40.00	4.00	237.00	5.00	9.00	0.50	12.63	
39	Acetylene *T3	2.00	2.63	93.00	5.00	253.00	5.00	10.00	0.00	12.63	
40	Chlorpyrifos #(T3)	0.00	5.00	17.00	1.00	71.00	4.00	5.00	2.50	12.50	
41	Zinc	0.00	5.00	31.00	3.00	90.00	4.00	7.00	0.50	12.50	
42	Sodium dodecyl sulfate #(T3)	0.00	5.00	27.00	2.00	104.00	5.00	7.00	0.50	12.50	
43	Isobutane-T3*	0.00	2.50	68.00	5.00	409.00	5.00	10.00	0.00	12.50	
44	Hydrogen T3	0.00	2.50	70.00	5.00	340.00	5.00	10.00	0.00	12.50	
45	Sodium chlorate	0.00	3.75	20.00	2.00	59.00	4.00	6.00	2.50	12.25	
46	Lindane * #(T3)	0.00	5.00	3.00	0.00	9.00	2.00	2.00	5.00	12.00	
47	Nitric oxide #(I)	3.00	8.00	11.00	1.00	12.00	3.00	4.00	0.00	12.00	
48	Bromine	3.00	8.00	12.00	1.00	50.00	3.00	4.00	0.00	12.00	
49	Potassium dichromate #(T3)	0.00	4.38	17.00	1.00	69.00	4.00	5.00	2.50	11.88	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
50	Diethylene glycol	111-46-6	100.00	3.00	4.38	0.01	3.66	1.28	0.00
51	Potassium Hydroxide #(T3)	1310-58-3	65.36	3.00	4.38	0.00	0.00	0.00	0.00
52	Potassium nitrate #(T3)	7757-79-1	120.91	2.00	4.38	0.00	3.00	1.05	0.00
53	Propylene-T3*	115-07-1	500000.00	0.00	1.88	8480.00	1.46	0.51	0.01
54	Kerosene #(T3)	8008-20-6	57.53	3.00	3.75	0.50	4.50	1.57	0.01
55	Phosphorus trichloride	7719-12-2	5.60	4.00	3.75	100.00	4.75	1.66	29.66
56	Hydrogen peroxide #(E3)	7722-84-1	100.00	3.00	3.13	25.00	1.17	0.41	0.10
57	Ethyl acetate #(T3)	141-78-6	2000.00	1.00	3.13	73.00	3.04	1.06	0.04
58	Isopropyl alcohol #(T3)	67-63-0	2000.00	1.00	3.13	33.00	2.07	0.72	0.01
59	Isobutyl alcohol #(T3)	78-83-1	1600.00	1.00	3.13	9.00	2.55	0.89	0.01
60	Potassium ferrocyanide #(T3)	13943-58-3	3.42	4.00	5.00	0.00	0.00	0.00	0.00
61	Chloroacetyl chloride E3	79-04-9	10.00	4.00	2.50	19.00	3.90	1.36	2.59
62	Lead Oxide #(T3)	1309-60-0	10.22	3.00	5.00	0.00	8.20	2.87	0.00
63	Potassium cyanide #(T3)	151-50-8	22.53	3.00	5.00	0.00	0.00	0.00	0.00
64	Potassium orthophosphate #(T3 based on strontium orthophosphate)	7778-53-2	89.84	3.00	5.00	0.00	0.00	0.00	0.00
65	Propane	74-98-6	33000.00	0.00	2.50	6400.00	1.55	0.54	0.11
66	Chloroform	67-66-3	3200.00	0.00	5.00	160.00	4.12	1.44	0.07
67	Iron oxide #(T3)	1309-37-1	76.55	3.00	4.38	0.00	0.00	0.00	0.00
68	Boron trifluoride *	7637-07-2	39.66	3.00	4.38	653.90	2.40	0.84	13.84
69	Phosphoryl Trichloride	10025-87-3	0.85	5.00	3.75	40.00	5.30	1.85	87.21
70	Aniline	62-53-3	20.00	3.00	3.75	0.67	3.22	1.13	0.04
71	Phenol #(E3)	108-95-2	200.00	2.00	3.75	0.20	3.24	1.13	0.00
72	Paracetamol #(E3-phenol)	103-90-2	200.00	2.00	3.75	0.00	0.00	0.00	0.00
73	Acetone	67-64-1	5700.00	0.00	3.13	180.00	2.00	0.70	0.02
74	n-Butyl acetate #(E3)	123-86-4	3000.00	0.00	3.13	10.00	4.00	1.40	0.00
75	Selenium hexafluoride	7783-79-1	0.26	5.00	5.00	541000.00	3.25	1.14	2364510.49
76	Silver nitrate #(T3)	7761-88-8	2.17	4.00	4.38	0.00	4.40	1.54	0.00
77	Mercuric nitrate	10045-94-0	1.07	4.00	4.38	18.00	11.00	3.85	64.70
78	Lead nitrate	10099-74-8	11.07	3.00	4.38	0.00	11.00	3.85	0.00
79	Magnesium (powder)-T3*	7439-95-4	251.49	2.00	1.88	1.00	6.00	2.10	0.01
80	Methyl iodide #(E3)	74-88-4	125.00	2.00	4.38	375.00	4.89	1.71	5.13
81	Methyl bromide	74-83-9	200.00	2.00	4.38	1420.00	3.27	1.14	8.12
82	Methylene chloride	75-09-2	69000.00	0.00	4.38	440.00	2.93	1.02	0.07
83	Naphthalene #(T3)	91-20-3	250.00	2.00	3.75	0.05	4.42	1.55	0.00
84	Nitrobenzene #(T3)	98-95-3	200.00	2.00	3.13	0.15	4.30	1.50	0.00
85	Iodine #(E3)	7553-56-2	5.00	4.00	5.00	0.30	8.80	3.08	0.18
86	Mercuric chloride #(T3 of Hg)	7487-94-7	1.08	4.00	5.00	0.00	8.70	3.04	0.00
87	Carbendazim	10605-21-7	3.25	4.00	5.00	0.00	0.00	0.00	0.00
88	Sodium fluoride #(T3)	7681-49-4	43.76	3.00	5.00	1.00	1.45	0.51	0.01
89	Copper oxychloride #(E3)	1332-40-7	100.00	3.00	5.00	1.30	0.00	0.00	0.00
90	Nitrogen dioxide	10102-44-0	20.00	3.00	5.00	720.00	1.58	0.55	19.89
91	Aluminum (powder) *T3	7429-90-5	226.54	2.00	2.50	0.00	0.00	0.00	0.00
92	Potassium fluoride #(T3)	7789-23-3	210.38	2.00	5.00	0.00	2.00	0.70	0.00
93	Cypermethrin #I as in pyrethrum)	52315-07-8	293.87	2.00	5.00	0.00	0.00	0.00	0.00
94	Dibutyl phthalate #(T3)	84-74-2	43.90	3.00	4.38	1.00	9.60	3.36	0.08
95	Oxalic acid * #(T3)	144-62-7	135.77	2.00	4.38	0.00	4.30	1.50	0.00
96	Tributyl phosphate #(T3)	126-73-8	30.00	3.00	4.38	13.70	9.20	3.22	1.47
97	Xylenes #(T3)	95-47-6	900.00	2.00	3.13	10.00	3.66	1.28	0.01
98	n-Butyl alcohol #(T3)	71-36-3	1400.00	1.00	3.13	4.00	2.60	0.91	0.00
99	Thiram * #(T3)	137-26-8	10.20	3.00	5.00	0.00	0.00	0.00	0.00

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
50	Diethylene glycol	0.00	4.38	30.00	3.00	94.00	4.00	7.00	0.50	11.88	
51	Potassium Hydroxide #(T3)	0.00	4.38	24.00	2.00	107.00	5.00	7.00	0.50	11.88	
52	Potassium nitrate #(T3)	0.00	4.38	24.00	2.00	117.00	5.00	7.00	0.50	11.88	
53	Propylene-T3*	0.00	1.88	52.00	5.00	211.00	5.00	10.00	0.00	11.88	
54	Kerosene #(T3)	0.00	3.75	35.00	3.00	102.00	5.00	8.00	0.00	11.75	
55	Phosphorus trichloride	3.00	6.75	11.00	1.00	57.00	4.00	5.00	0.00	11.75	
56	Hydrogen peroxide #(E3)	0.00	3.13	38.00	3.00	172.00	5.00	8.00	0.50	11.63	
57	Ethyl acetate #(T3)	0.00	3.13	30.00	3.00	139.00	5.00	8.00	0.50	11.63	
58	Isopropyl alcohol #(T3)	0.00	3.13	24.00	2.00	90.00	4.00	6.00	2.50	11.63	
59	Isobutyl alcohol #(T3)	0.00	3.13	27.00	2.00	80.00	4.00	6.00	2.50	11.63	
60	Potassium ferrocyanide #(T3)	0.00	5.00	12.00	1.00	38.00	3.00	4.00	2.50	11.50	
61	Chloroacetyl chloride E3	2.00	4.50	25.00	2.00	179.00	5.00	7.00	0.00	11.50	
62	Lead Oxide #(T3)	0.00	5.00	10.00	1.00	20.00	3.00	4.00	2.50	11.50	
63	Potassium cyanide #(T3)	0.00	5.00	14.00	1.00	23.00	3.00	4.00	2.50	11.50	
64	Potassium orthophosphate #(T3 based on strontium orthophosphate)	0.00	5.00	11.00	1.00	33.00	3.00	4.00	2.50	11.50	
65	Propane	0.00	2.50	42.00	4.00	142.00	5.00	9.00	0.00	11.50	
66	Chloroform	0.00	5.00	20.00	2.00	81.00	4.00	6.00	0.50	11.50	
67	Iron oxide #(T3)	0.00	4.38	27.00	2.00	141.00	5.00	7.00	0.00	11.38	
68	Boron trifluoride *	3.00	7.38	11.00	1.00	28.00	3.00	4.00	0.00	11.38	
69	Phosphoryl Trichloride	3.00	6.75	14.00	1.00	50.00	3.00	4.00	0.50	11.25	
70	Aniline	0.00	3.75	16.00	1.00	64.00	4.00	5.00	2.50	11.25	
71	Phenol #(E3)	0.00	3.75	26.00	2.00	129.00	5.00	7.00	0.50	11.25	
72	Paracetamol #(E3-phenol)	0.00	3.75	23.00	2.00	106.00	5.00	7.00	0.50	11.25	
73	Acetone	0.00	3.13	30.00	3.00	146.00	5.00	8.00	0.00	11.13	
74	n-Butyl acetate #(E3)	0.00	3.13	30.00	3.00	124.00	5.00	8.00	0.00	11.13	
75	Selenium hexafluoride	5.00	10.00	2.00	0.00	2.00	1.00	1.00	0.00	11.00	
76	Silver nitrate #(T3)	0.00	4.38	22.00	2.00	80.00	4.00	6.00	0.50	10.88	
77	Mercuric nitrate	3.00	7.38	8.00	0.00	14.00	3.00	3.00	0.50	10.88	
78	Lead nitrate	0.00	4.38	16.00	1.00	49.00	3.00	4.00	2.50	10.88	
79	Magnesium (powder)-T3*	0.00	1.88	42.00	4.00	423.00	5.00	9.00	0.00	10.88	
80	Methyl iodide #(E3)	2.00	6.38	10.00	1.00	40.00	3.00	4.00	0.50	10.88	
81	Methyl bromide	2.00	6.38	10.00	1.00	17.00	3.00	4.00	0.50	10.88	
82	Methylene chloride	0.00	4.38	21.00	2.00	83.00	4.00	6.00	0.50	10.88	
83	Naphthalene #(T3)	0.00	3.75	25.00	2.00	103.00	5.00	7.00	0.00	10.75	
84	Nitrobenzene #(T3)	0.00	3.13	12.00	1.00	55.00	4.00	5.00	2.50	10.63	
85	Iodine #(E3)	0.00	5.00	19.00	1.00	80.00	4.00	5.00	0.50	10.50	
86	Mercuric chloride #(T3 of Hg)	0.00	5.00	9.00	0.00	21.00	3.00	3.00	2.50	10.50	
87	Carbendazim	0.00	5.00	16.00	1.00	62.00	4.00	5.00	0.50	10.50	
88	Sodium fluoride #(T3)	0.00	5.00	16.00	1.00	85.00	4.00	5.00	0.50	10.50	
89	Copper oxychloride #(E3)	0.00	5.00	21.00	2.00	41.00	3.00	5.00	0.50	10.50	
90	Nitrogen dioxide	3.00	8.00	7.00	0.00	9.00	2.00	2.00	0.50	10.50	
91	Aluminum (powder)*T3	0.00	2.50	39.00	3.00	520.00	5.00	8.00	0.00	10.50	
92	Potassium fluoride #(T3)	0.00	5.00	14.00	1.00	82.00	4.00	5.00	0.50	10.50	
93	Cypermethrin #(I as in pyrethrum)	0.00	5.00	15.00	1.00	89.00	4.00	5.00	0.50	10.50	
94	Dibutyl phthalate #(T3)	0.00	4.38	27.00	2.00	88.00	4.00	6.00	0.00	10.38	
95	Oxalic acid * #(T3)	0.00	4.38	16.00	1.00	106.00	5.00	6.00	0.00	10.38	
96	Tributyl phosphate #(T3)	2.00	6.38	10.00	1.00	37.00	3.00	4.00	0.00	10.38	
97	Xylenes #(T3)	0.00	3.13	32.00	3.00	76.00	4.00	7.00	0.00	10.13	
98	n-Butyl alcohol #(T3)	0.00	3.13	26.00	2.00	106.00	5.00	7.00	0.00	10.13	
99	Thiram * #(T3)	0.00	5.00	17.00	1.00	72.00	4.00	5.00	0.00	10.00	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
100	Hydrogen sulfide	7783-06-4	50.00	3.00	2.50	6536.00	2.12	0.74	96.90
101	Carbon monoxide/Syngas	1333-74-0	500000.00	0.00	2.50	26600.00	0.07	0.02	0.00
102	Barium nitrate *T3	10022-31-8	7.02	4.00	4.38	0.00	9.00	3.15	0.00
103	Tetrafluoroboric acid #(T3)	16872-11-0	11.14	3.00	4.38	7.00	3.00	1.05	0.66
104	Dichlorvos	62-73-7	100.00	3.00	4.38	0.01	0.00	0.00	0.00
105	Ammonium persulfate *T3	7727-54-0	10.71	3.00	4.38	0.00	1.60	0.56	0.00
106	Cobalt (II) nitrate	10141-05-6	12.60	3.00	4.38	0.00	0.00	0.00	0.00
107	Potassium permanganate #(T3)	7722-64-7	19.34	3.00	4.38	0.00	0.00	0.00	0.00
108	Trichloroethylene	79-01-6	38000.00	0.00	4.38	60.00	4.53	1.58	0.03
109	Formic acid #(T3)	64-18-6	30.00	3.00	3.75	35.00	1.60	0.56	0.65
110	Ethanolamine #(T3)	141-43-5	30.00	3.00	3.75	0.40	2.10	0.73	0.01
111	Silicon tetrafluoride-T3*	7783-61-1	100.00	3.00	3.75	26400.00	3.63	1.27	335.08
112	Sodium sulfid #*(T3)	1313-82-2	23.51	3.00	3.75	0.00	0.00	0.00	0.00
113	Cyclohexanone #*(T3)	108-94-1	700.00	2.00	3.75	5.20	3.40	1.19	0.01
114	Hexafluoroacetone E3	684-16-2	50.00	3.00	3.75	4408.00	1.65	0.58	50.86
115	Tungsten hexafluoride-T3*	7783-82-6	32.84	3.00	3.75	863.00	10.60	3.71	97.40
116	Titanium tetrachloride-E3*	7550-45-0	12.89	3.00	3.75	9.60	4.90	1.71	1.28
117	Sulfuryl chloride-T3*	7791-25-5	15.00	3.00	3.75	99.76	4.70	1.64	10.93
118	Hydrogen iodide T3	10034-85-2	120.00	2.00	3.75	5673.13	4.50	1.57	74.39
119	Cyclohexane #*(T3)	110-82-7	1300.00	1.00	3.13	95.00	2.90	1.01	0.07
120	Ethylene oxide	75-21-8	200.00	2.00	0.63	1095.00	1.49	0.52	2.85
121	Tetrahydrofuran #*(T3)	109-99-9	50000.00	0.00	3.13	145.00	2.50	0.87	0.03
122	OMPA	152-16-9	0.30	5.00	5.00	0.00	0.00	0.00	0.00
123	Cadmium	7440-43-9	1.96	4.00	5.00	1.00	3.90	1.36	0.70
124	Endosulfan	115-29-7	2.10	4.00	5.00	0.00	14.00	4.90	0.00
125	Dimethoate #*(T3)	60-51-5	3.19	4.00	5.00	0.00	0.00	0.00	0.00
126	Chlorine dioxide	10049-04-4	2.40	4.00	2.50	720.00	2.40	0.84	251.75
127	Red mercuric oxide	21908-53-2	1.08	4.00	5.00	0.00	0.00	0.00	0.00
128	Molybdenophosphoric acid	51429-74-4	37.05	3.00	5.00	4.00	0.00	0.00	0.00
129	Cyanogen Chloride	460-19-5	10.00	4.00	5.00	1000.00	2.60	0.91	90.91
130	Mercurizin #*(T3 as diazo compound)	21087-64-9	10.98	3.00	5.00	0.00	0.00	0.00	0.00
131	Sodium borate	12179-04-3	32.09	3.00	5.00	0.00	0.00	0.00	0.00
132	Carbon tetrachloride	56-23-5	520.00	2.00	5.00	91.00	5.30	1.85	0.32
133	Fluorine	7782-41-4	13.00	3.00	2.50	760.00	1.70	0.59	34.65
134	Boron *T3 of B2O3	7440-42-8	175.00	2.00	5.00	0.00	0.00	0.00	0.00
135	Deltamethrin #*(I as in pyrethrum)	52918-63-5	293.87	2.00	5.00	0.00	0.00	0.00	0.00
136	Iron phosphate #*(T3 as iron)	10045-86-0	214.47	2.00	5.00	0.00	0.00	0.00	0.00
137	Butane T3	106-97-8	19000.00	0.00	2.50	1823.00	2.05	0.72	0.07
138	Carbonyl fluoride T3	353-50-4	20.00	3.00	4.38	42103.99	2.76	0.97	2031.59
139	MDEA-R* (N-Methyl diethanolamine)	105-59-9	150.00	2.00	4.38	0.02	4.00	1.40	0.00
140	Dimethylformamide	68-12-2	530.00	2.00	3.75	2.70	2.51	0.88	0.00
141	1,3-Butadiene	106-99-0	22000.00	0.00	1.25	1840.00	1.87	0.65	0.05
142	Toluene-2,4-diisocyanate	584-84-9	0.51	5.00	3.13	1.00	6.00	2.10	4.11
143	Methyl chloroformate-T3*	79-22-1	4.00	4.00	3.13	129.00	3.26	1.14	36.76
144	Ethylene dichloride #*(E3)	107-06-2	300.00	2.00	3.13	60.00	3.40	1.19	0.24
145	Isobutyl acetate #*(T3)	110-19-0	1300.00	1.00	3.13	15.00	4.00	1.40	0.02
146	Ethyl benzene	100-41-4	1800.00	1.00	3.13	10.00	3.66	1.28	0.01
147	n-Hexane	110-54-3	86000.00	0.00	3.13	120.00	2.97	1.04	0.01
148	Oleum-E3*	8014-95-7	4.12	4.00	5.00	2.00	3.39	1.19	0.58
149	Carbaryl * #*(T3)	63-25-2	12.15	3.00	5.00	0.00	0.00	0.00	0.00
150	Malathion #*(T3)	121-75-5	18.50	3.00	5.00	0.00	0.00	0.00	0.00

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
100	Hydrogen sulfide	3.00	5.50	15.00	1.00	24.00	3.00	4.00	0.50	10.00	
101	Carbon monoxide/Syngas	0.00	2.50	31.00	3.00	55.00	4.00	7.00	0.50	10.00	
102	Barium nitrate *T3	0.00	4.38	15.00	1.00	72.00	4.00	5.00	0.50	9.88	
103	Tetrafluoroboric acid #(T3)	0.00	4.38	17.00	1.00	60.00	4.00	5.00	0.50	9.88	
104	Dichlorvos	0.00	4.38	12.00	1.00	52.00	4.00	5.00	0.50	9.88	
105	Ammonium persulfate *T3	0.00	4.38	12.00	1.00	57.00	4.00	5.00	0.50	9.88	
106	Cobalt (II) nitrate	0.00	4.38	18.00	1.00	70.00	4.00	5.00	0.50	9.88	
107	Potassium permanganate #(T3)	0.00	4.38	16.00	1.00	57.00	4.00	5.00	0.50	9.88	
108	Trichloroethylene	0.00	4.38	17.00	1.00	55.00	4.00	5.00	0.50	9.88	
109	Formic acid #(T3)	0.00	3.75	26.00	2.00	84.00	4.00	6.00	0.00	9.75	
110	Ethanolamine #(T3)	0.00	3.75	20.00	2.00	72.00	4.00	6.00	0.00	9.75	
111	Silicon tetrafluoride-T3*	3.00	6.75	9.00	0.00	15.00	3.00	3.00	0.00	9.75	
112	Sodium sulfid #*(T3)	0.00	3.75	21.00	2.00	86.00	4.00	6.00	0.00	9.75	
113	Cyclohexanone #*(T3)	0.00	3.75	25.00	2.00	72.00	4.00	6.00	0.00	9.75	
114	Hexafluoroacetone E3	3.00	6.75	6.00	0.00	18.00	3.00	3.00	0.00	9.75	
115	Tungsten hexafluoride-T3*	3.00	6.75	8.00	0.00	17.00	3.00	3.00	0.00	9.75	
116	Titanium tetrachloride-E3*	2.00	5.75	15.00	1.00	25.00	3.00	4.00	0.00	9.75	
117	Sulfuryl chloride-T3*	3.00	6.75	7.00	0.00	17.00	3.00	3.00	0.00	9.75	
118	Hydrogen iodide T3	3.00	6.75	2.00	0.00	30.00	3.00	3.00	0.00	9.75	
119	Cyclohexane #*(T3)	0.00	3.13	26.00	2.00	75.00	4.00	6.00	0.50	9.63	
120	Ethylene oxide	2.00	2.63	32.00	3.00	84.00	4.00	7.00	0.00	9.63	
121	Tetrahydrofuran #*(T3)	0.00	3.13	21.00	2.00	65.00	4.00	6.00	0.50	9.63	
122	OMPA	0.00	5.00	11.00	1.00	22.00	3.00	4.00	0.50	9.50	
123	Cadmium	0.00	5.00	19.00	1.00	37.00	3.00	4.00	0.50	9.50	
124	Endosulfan	0.00	5.00	11.00	1.00	32.00	3.00	4.00	0.50	9.50	
125	Dimethoate #*(T3)	0.00	5.00	11.00	1.00	39.00	3.00	4.00	0.50	9.50	
126	Chlorine dioxide	3.00	5.50	14.00	1.00	33.00	3.00	4.00	0.00	9.50	
127	Red mercuric oxide	0.00	5.00	11.00	1.00	26.00	3.00	4.00	0.50	9.50	
128	Molybdenophosphoric acid	0.00	5.00	10.00	1.00	22.00	3.00	4.00	0.50	9.50	
129	Cyanogen Chloride	3.00	8.00	2.00	0.00	3.00	1.00	1.00	0.50	9.50	
130	Metribuzin #*(T3 as diazo compound)	0.00	5.00	11.00	1.00	23.00	3.00	4.00	0.50	9.50	
131	Sodium borate	0.00	5.00	6.00	0.00	10.00	2.00	2.00	2.50	9.50	
132	Carbon tetrachloride	0.00	5.00	16.00	1.00	49.00	3.00	4.00	0.50	9.50	
133	Fluorine	3.00	5.50	10.00	1.00	17.00	3.00	4.00	0.00	9.50	
134	Boron *T3 of B2O3	0.00	5.00	10.00	1.00	23.00	3.00	4.00	0.50	9.50	
135	Deltamethrin #*(I as in pyrethrum)	0.00	5.00	15.00	1.00	41.00	3.00	4.00	0.50	9.50	
136	Iron phosphate #*(T3 as iron)	0.00	5.00	5.00	0.00	7.00	2.00	2.00	2.50	9.50	
137	Butane T3	0.00	2.50	36.00	3.00	97.00	4.00	7.00	0.00	9.50	
138	Carbonyl fluoride T3	4.00	8.38	1.00	0.00	3.00	1.00	1.00	0.00	9.38	
139	MDEA-R* (N-Methylidiethanolamine)	0.00	4.38	24.00	2.00	44.00	3.00	5.00	0.00	9.38	
140	Dimethylformamide	0.00	3.75	19.00	1.00	64.00	4.00	5.00	0.50	9.25	
141	1,3-Butadiene	0.00	1.25	31.00	3.00	111.00	5.00	8.00	0.00	9.25	
142	Toluene-2,4-diisocyanate	2.00	5.13	12.00	1.00	20.00	3.00	4.00	0.00	9.13	
143	Methyl chloroformate-T3*	3.00	6.13	2.00	0.00	23.00	3.00	3.00	0.00	9.13	
144	Ethylene dichloride #*(E3)	0.00	3.13	28.00	2.00	70.00	4.00	6.00	0.00	9.13	
145	Isobutyl acetate #*(T3)	0.00	3.13	21.00	2.00	56.00	4.00	6.00	0.00	9.13	
146	Ethyl benzene	0.00	3.13	21.00	2.00	51.00	4.00	6.00	0.00	9.13	
147	n-Hexane	0.00	3.13	23.00	2.00	78.00	4.00	6.00	0.00	9.13	
148	Oleum-E3*	0.00	5.00	9.00	0.00	81.00	4.00	4.00	0.00	9.00	
149	Carbaryl * #*(T3)	0.00	5.00	10.00	1.00	25.00	3.00	4.00	0.00	9.00	
150	Malathion #*(T3)	0.00	5.00	11.00	1.00	33.00	3.00	4.00	0.00	9.00	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
151	Sulfuryl fluoride	2699-79-8	64.00	3.00	5.00	12008.00	3.70	1.29	242.73
152	2,4-D * #(T3)	94-75-7	11.06	3.00	5.00	0.00	7.63	2.67	0.00
153	Bromoform #(T3)	75-25-2	850.00	2.00	5.00	5.00	8.70	3.04	0.02
154	Fluorotrichloromethane #(T3)	75-69-4	2000.00	1.00	5.00	792.00	5.04	1.76	0.70
155	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	76-13-1	2000.00	1.00	5.00	284.00	6.00	2.10	0.30
156	Tetrachloroethylene	127-18-4	1200.00	1.00	5.00	14.00	5.83	2.04	0.02
157	Graphite #(T3)	7782-42-5	1017.90	1.00	5.00	0.00	0.00	0.00	0.00
158	Dichlorodifluoromethane #(T3)	75-71-8	15000.00	0.00	5.00	4253.00	4.20	1.47	0.42
159	Atrazine *T3	1912-24-9	1.50	4.00	4.38	0.00	0.00	0.00	0.00
160	Methidathion #(T3)	950-37-8	32.35	3.00	4.38	0.00	0.00	0.00	0.00
161	Bismuth *T3 of BiOCl	7440-69-9	47.00	3.00	4.38	0.00	0.00	0.00	0.00
162	Halothane (T:V)	151-67-7	50.00	3.00	4.38	243.00	6.80	2.38	11.56
163	Styrene	100-42-5	1100.00	1.00	1.88	4.30	1.10	0.38	0.00
164	Arsine	7784-42-1	0.50	5.00	1.25	11362.00	2.66	0.93	21134.91
165	Aluminum chloride, anhydrous *T3	7446-70-0	91.68	3.00	3.75	1.00	0.00	0.00	0.00
166	Boron tribromide T3	10294-33-4	5.00	4.00	3.75	40.00	2.30	0.80	6.43
167	Sulfur trioxide-E3*	7446-11-9	9.16	4.00	3.75	73.00	2.70	0.94	7.52
168	Germanium tetrafluoride T3	7783-58-6	82.25	3.00	3.75	12153.01	1.00	0.35	51.66
169	Chloropicrin	76-06-2	1.40	4.00	3.13	16.90	5.70	1.99	24.06
170	Strychnine Sulfate #(T3)	60-41-3	0.29	5.00	5.00	0.00	0.00	0.00	0.00
171	Metalalyl #(T3 of parent dixylyl methyl carbamate)	57837-19-1	1.63	4.00	5.00	0.00	0.00	0.00	0.00
172	Arsenic *T3	7440-38-2	1.63	4.00	5.00	0.00	0.00	0.00	0.00
173	Methamidophos	10265-92-6	10.39	3.00	5.00	0.00	0.00	0.00	0.00
174	Fenpropatrin #(A EGL-3 of Cyano group of the carboxylate family)	39515-41-8	25.00	3.00	5.00	0.00	0.00	0.00	0.00
175	Acetyl Bromide *T3	506-96-7	20.00	3.00	2.50	103.00	4.24	1.48	7.63
176	Methylamine	74-89-5	350.00	2.00	2.50	1972.92	1.10	0.38	2.17
177	Dimethylamine	124-40-3	250.00	2.00	2.50	1388.03	1.60	0.56	3.11
178	Allyl chloride	107-05-1	140.00	2.00	2.50	340.00	2.64	0.92	2.24
179	Profenofos #(I)	41198-08-7	1600.00	1.00	5.00	0.00	0.00	0.00	0.00
180	Nitrosyl chloride-T3*	2696-92-6	2.50	4.00	4.38	2180.00	2.30	0.80	701.26
181	2,6-di-tert-butyl-p-cresol *T3	128-37-0	44.45	3.00	4.38	0.01	7.60	2.66	0.00
182	Hydroquinone * #(T3)	123-31-9	11.10	3.00	4.38	0.00	3.81	1.33	0.00
183	Dimethylphthalate * #(T3)	131-11-3	62.96	3.00	4.38	0.00	6.69	2.34	0.00
184	Methyl chloroform	71-55-6	4200.00	0.00	4.38	100.00	4.60	1.61	0.04
185	Benomyl	17804-35-2	0.84	5.00	3.75	0.00	0.00	0.00	0.00
186	Phosphorus	7723-14-0	3.16	4.00	3.75	0.03	4.77	1.67	0.02
187	Boron trichloride T3	10294-34-5	2.50	4.00	1.25	760.00	4.03	1.41	428.36
188	Barium *T3	7440-39-3	22.31	3.00	3.75	0.00	0.00	0.00	0.00
189	Tetramethyleneethylenediamine #(T#)	110-18-9	125.00	2.00	3.75	3.00	4.00	1.40	0.03
190	Ethylene T3	74-85-1	15000.00	0.00	1.25	26630.39	0.97	0.34	0.60
191	p-Phenylene diamine * #(T3)	106-50-3	5.70	4.00	3.13	0.08	3.72	1.30	0.02
192	Furfural #(E3)	98-01-1	100.00	3.00	3.13	1.00	3.31	1.16	0.01
193	Chlorobenzene	108-90-7	400.00	2.00	3.13	8.80	3.88	1.36	0.03
194	Acetic anhydride #(T3)	108-24-7	200.00	2.00	3.13	4.00	3.52	1.23	0.02
195	Hexone #(T3)	108-10-1	500.00	2.00	3.13	5.00	3.45	1.21	0.01
196	Isooamyl alcohol (primary and secondary) #(T3)	123-51-3	500.00	2.00	3.13	2.37	3.04	1.06	0.01
197	Propyl chloroformate-T3*	109-61-5	60.00	3.00	3.13	44.98	4.20	1.47	1.10

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
151	Sulfuryl fluoride	3.00	8.00	4.00	0.00	5.00	1.00	1.00	0.00	9.00	
152	2,4-D * #(T3)	0.00	5.00	15.00	1.00	32.00	3.00	4.00	0.00	9.00	
153	Bromoform #(T3)	0.00	5.00	10.00	1.00	24.00	3.00	4.00	0.00	9.00	
154	Fluorotrichloromethane #(T3)	0.00	5.00	12.00	1.00	18.00	3.00	4.00	0.00	9.00	
155	1,1,2-Trichloro 1,2,2-trifluoroethane #(T3)	0.00	5.00	12.00	1.00	15.00	3.00	4.00	0.00	9.00	
156	Tetrachloroethylene	0.00	5.00	17.00	1.00	43.00	3.00	4.00	0.00	9.00	
157	Graphite #(T3)	0.00	5.00	16.00	1.00	43.00	3.00	4.00	0.00	9.00	
158	Dichlorodifluoromethane #(T3)	0.00	5.00	14.00	1.00	25.00	3.00	4.00	0.00	9.00	
159	Atrazine *T3	0.00	4.38	10.00	1.00	23.00	3.00	4.00	0.50	8.88	
160	Methidathion #(T3)	0.00	4.38	4.00	0.00	9.00	2.00	2.00	2.50	8.88	
161	Bismuth *T3 of BiOCl	0.00	4.38	15.00	1.00	26.00	3.00	4.00	0.50	8.88	
162	Halothane (T:V)	3.00	7.38	3.00	0.00	4.00	1.00	1.00	0.50	8.88	
163	Styrene	0.00	1.88	28.00	2.00	104.00	5.00	7.00	0.00	8.88	
164	Arsine	5.00	6.25	8.00	0.00	10.00	2.00	2.00	0.50	8.75	
165	Aluminum chloride, anhydrous *T3	0.00	3.75	10.00	1.00	99.00	4.00	5.00	0.00	8.75	
166	Boron tribromide T3	2.00	5.75	3.00	0.00	12.00	3.00	3.00	0.00	8.75	
167	Sulfur trioxide-E3*	2.00	5.75	6.00	0.00	12.00	3.00	3.00	0.00	8.75	
168	Germanium tetrafluoride T3	3.00	6.75	2.00	0.00	7.00	2.00	2.00	0.00	8.75	
169	Chloropicrin	3.00	6.13	3.00	0.00	7.00	2.00	2.00	0.50	8.63	
170	Strychnine Sulfate #(T3)	0.00	5.00	1.00	0.00	3.00	1.00	1.00	2.50	8.50	
171	Metalalaxy #T3 of parent dixylyl methyl carbamate)	0.00	5.00	8.00	0.00	25.00	3.00	3.00	0.50	8.50	
172	Arsenic *T3	0.00	5.00	6.00	0.00	11.00	3.00	3.00	0.50	8.50	
173	Methamidophos	0.00	5.00	9.00	0.00	45.00	3.00	3.00	0.50	8.50	
174	Fenpropathrin #(A EGL-3 of Cyano group of the carboxylate family)	0.00	5.00	3.00	0.00	19.00	3.00	3.00	0.50	8.50	
175	Acetyl Bromide *T3	2.00	4.50	10.00	1.00	23.00	3.00	4.00	0.00	8.50	
176	Methylaniline	2.00	4.50	14.00	1.00	46.00	3.00	4.00	0.00	8.50	
177	Dimethylaniline	2.00	4.50	14.00	1.00	41.00	3.00	4.00	0.00	8.50	
178	Allyl chloride	2.00	4.50	11.00	1.00	19.00	3.00	4.00	0.00	8.50	
179	Profenofos #(I)	0.00	5.00	4.00	0.00	21.00	3.00	3.00	0.50	8.50	
180	Nitrosyl chloride-T3*	3.00	7.38	1.00	0.00	1.00	1.00	1.00	0.00	8.38	
181	2,6-di-tert-butyl-p-cresol *T3	0.00	4.38	13.00	1.00	48.00	3.00	4.00	0.00	8.38	
182	Hydroquinone * #(T3)	0.00	4.38	15.00	1.00	41.00	3.00	4.00	0.00	8.38	
183	Dimethylphthalate * #(T3)	0.00	4.38	16.00	1.00	36.00	3.00	4.00	0.00	8.38	
184	Methyl chloroform	0.00	4.38	14.00	1.00	20.00	3.00	4.00	0.00	8.38	
185	Benomyl	0.00	3.75	10.00	1.00	23.00	3.00	4.00	0.50	8.25	
186	Phosphorus	0.00	3.75	11.00	1.00	49.00	3.00	4.00	0.50	8.25	
187	Boron trichloride T3	3.00	4.25	16.00	1.00	13.00	3.00	4.00	0.00	8.25	
188	Barium *T3	0.00	3.75	11.00	1.00	13.00	3.00	4.00	0.50	8.25	
189	Tetramethyleneethylenediamine #(T#)	0.00	3.75	10.00	1.00	18.00	3.00	4.00	0.50	8.25	
190	Ethylene T3	0.00	1.25	20.00	2.00	173.00	5.00	7.00	0.00	8.25	
191	p-Phenylene diamine * #(T3)	0.00	3.13	12.00	1.00	52.00	4.00	5.00	0.00	8.13	
192	Furfural #(E3)	0.00	3.13	19.00	1.00	66.00	4.00	5.00	0.00	8.13	
193	Chlorobenzene	0.00	3.13	13.00	1.00	53.00	4.00	5.00	0.00	8.13	
194	Acetic anhydride #(T3)	0.00	3.13	19.00	1.00	55.00	4.00	5.00	0.00	8.13	
195	Hexone #(T3)	0.00	3.13	17.00	1.00	52.00	4.00	5.00	0.00	8.13	
196	Isooamyl alcohol (primary and secondary) #(T3)	0.00	3.13	18.00	1.00	60.00	4.00	5.00	0.00	8.13	
197	Propyl chloroformate-T3*	2.00	5.13	2.00	0.00	12.00	3.00	3.00	0.00	8.13	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
198	2-Butanone	78-93-3	4000.00	0.00	3.13	77.50	2.42	0.85	0.02
199	2 Aminopyridine #(T)	504-29-0	5.00	4.00	5.00	0.80	3.20	1.12	0.18
200	Warfarin * #(T3)	81-81-2	1.60	4.00	5.00	0.09	0.00	0.00	0.00
201	p-Anisidine * #(T3)	104-94-9	9.93	4.00	5.00	0.03	4.25	1.49	0.00
202	Ethylene dibromide	106-93-4	46.00	3.00	5.00	11.00	6.48	2.27	0.54
203	1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoina REV 22)	118-52-5	62.06	3.00	5.00	1.00	6.80	2.38	0.04
204	p-Nitrochlorobenzene * #(T3)	100-00-5	15.52	3.00	2.50	0.09	5.44	1.90	0.01
205	Hexachloroethane * #(T3)	67-72-1	300.00	2.00	5.00	0.40	8.16	2.85	0.00
206	Dinitrogen tetroxide T3	10544-72-6	20.00	3.00	5.00	1551.00	1.58	0.55	42.84
207	Methyl parathion * #(T3)	298-00-0	1.39	4.00	4.38	0.00	9.10	3.18	0.00
208	Polyphosphoric acid	68333-79-9	14.47	3.00	4.38	1.50	3.40	1.19	0.12
209	Chloromethyl methyl ether E3	107-30-2	10.00	4.00	1.88	192.00	2.80	0.98	18.80
210	Biphenyl * #(T3)	92-52-4	15.80	3.00	4.38	0.01	5.31	1.86	0.00
211	Diphenyl Ether * #(T3)	101-84-8	100.00	3.00	4.38	0.02	5.87	2.05	0.00
212	Thiophanate methyl #(T3 of carbamate fungicides)	23564-05-8	11.00	3.00	4.38	0.00	0.00	0.00	0.00
213	Fenvalerate	51630-58-1	29.11	3.00	4.38	0.00	0.00	0.00	0.00
214	Acrylyl Chloride *T3	814-68-6	10.00	4.00	1.88	99.81	3.12	1.09	10.89
215	Methyltrichlorosilane-E3*	75-79-6	15.00	3.00	1.88	124.00	5.17	1.81	14.94
216	Ethyl ether * #(T3)	60-29-7	1900.00	1.00	1.88	442.00	2.60	0.91	0.21
217	Perchloromethyl mercaptan	594-42-3	0.90	5.00	3.75	65.00	6.41	2.24	161.97
218	Methylene bisphenyl isocyanate * #(E3)	101-68-8	2.40	4.00	3.75	0.00	0.00	0.00	0.00
219	Phosphine	7803-51-2	3.60	4.00	1.25	760.00	1.17	0.41	86.36
220	Ethylenediamine	107-15-3	20.00	3.00	3.75	10.70	2.07	0.72	0.39
221	Camphor (synthetic) * #(T3)	76-22-2	32.11	3.00	3.75	0.65	5.24	1.83	0.04
222	Quinone * #(T3)	106-51-4	22.60	3.00	3.75	0.10	3.70	1.29	0.01
223	N,N-Dimethylaniline * #(T3)	121-69-7	100.00	3.00	3.75	0.40	4.17	1.46	0.01
224	o-Toluidine * #(T3)	95-53-4	50.00	3.00	3.75	0.10	3.69	1.29	0.00
225	Potassium chlorate	3811-04-9	69.83	3.00	3.75	0.00	4.20	1.47	0.00
226	Cyclohexanol * #(T3)	108-93-0	400.00	2.00	3.75	5.17	3.50	1.22	0.02
227	Dimethyl acetamide * #(T3)	127-19-5	300.00	2.00	3.75	1.50	3.01	1.05	0.01
228	p-Dichlorobenzene * #(T3)	106-46-7	150.00	2.00	3.75	0.60	5.08	1.78	0.01
229	Methyl (n-amyl) ketone * #(T3)	110-43-0	800.00	2.00	3.75	3.00	3.94	1.38	0.01
230	Diacetone alcohol * #(T3)	123-42-2	1800.00	1.00	3.75	1.71	4.00	1.40	0.00
231	Acetonitrile	75-05-8	670.00	2.00	3.13	73.00	1.42	0.50	0.05
232	n-Propyl alcohol * #(T3)	71-23-8	800.00	2.00	3.13	15.00	2.10	0.73	0.01
233	n-Amyl acetate * #(T3)	628-63-7	1000.00	2.00	3.13	4.00	4.50	1.57	0.01
234	Ethyl bromide * #(T3)	74-96-4	1500.00	1.00	3.13	375.00	3.76	1.31	0.33
235	Iron, pentacarbonyl- T3	13463-40-6	0.18	5.00	2.50	40.00	6.74	2.36	523.70
236	Crag (r) herbicide * #(T3)	136-78-7	39.55	3.00	5.00	0.10	0.00	0.00	0.00
237	Aldicarb *#	116-06-3	12.87	3.00	5.00	0.00	0.00	0.00	0.00
238	Chloroform-D	865-49-6	500.00	2.00	5.00	160.00	4.20	1.47	0.47
239	Cumene	98-82-8	730.00	2.00	2.50	3.20	4.13	1.44	0.01
240	n-Pentane * #(T3)	109-66-0	1500.00	1.00	2.50	426.00	2.48	0.87	0.25
241	Trimethylamine-E3*	75-50-3	500.00	2.00	2.50	1487.83	2.00	0.70	2.08
242	Ethane T3	74-84-0	25000.00	0.00	2.50	28877.37	1.05	0.37	0.42
243	o-Anisidine * #(T3)	90-04-0	9.93	4.00	4.38	0.98	4.25	1.49	0.15
244	Acetylene tetrabromide * #(T3)	79-27-6	8.00	4.00	4.38	0.10	11.90	4.16	0.05
245	2-chloroacacetophenone*IDLH	532-27-4	2.38	4.00	4.38	0.01	5.20	1.82	0.00
246	Triphenyl phosphate*	115-86-6	37.47	3.00	4.38	1.00	11.30	3.95	0.11

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
198	2-Butanone	0.00	3.13	18.00	1.00	63.00	4.00	5.00	0.00	8.13	
199	2 Aminopyridine #(I)	0.00	5.00	6.00	0.00	20.00	3.00	3.00	0.00	8.00	
200	Warfarin * #(T3)	0.00	5.00	9.00	0.00	14.00	3.00	3.00	0.00	8.00	
201	p-Anisidine * #(T3)	0.00	5.00	5.00	0.00	19.00	3.00	3.00	0.00	8.00	
202	Ethylene dibromide	0.00	5.00	7.00	0.00	27.00	3.00	3.00	0.00	8.00	
203	1,3-Dichloro-5,5-dimethylhydantoin #(TEEL3 of hydantoina REV 22)	0.00	5.00	3.00	0.00	16.00	3.00	3.00	0.00	8.00	
204	p-Nitrochlorobenzene * #(T3)	0.00	2.50	6.00	0.00	25.00	3.00	3.00	2.50	8.00	
205	Hexachloroethane #(T3)	0.00	5.00	3.00	0.00	15.00	3.00	3.00	0.00	8.00	
206	Dinitrogen tetroxide T3	3.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	
207	Methyl parathion * #(T3)	0.00	4.38	7.00	0.00	25.00	3.00	3.00	0.50	7.88	
208	Polyphosphoric acid	0.00	4.38	9.00	0.00	26.00	3.00	3.00	0.50	7.88	
209	Chloromethyl methyl ether E3	3.00	4.88	8.00	0.00	11.00	3.00	3.00	0.00	7.88	
210	Biphenyl * #(T3)	0.00	4.38	7.00	0.00	18.00	3.00	3.00	0.50	7.88	
211	Diphenyl Ether * #(T3)	0.00	4.38	5.00	0.00	23.00	3.00	3.00	0.50	7.88	
212	Thiophanate methyl #(T3 of carbamate fungicides)	0.00	4.38	8.00	0.00	30.00	3.00	3.00	0.50	7.88	
213	Fenvalerate	0.00	4.38	6.00	0.00	48.00	3.00	3.00	0.50	7.88	
214	Acrylyl Chloride * T3	3.00	4.88	5.00	0.00	15.00	3.00	3.00	0.00	7.88	
215	Methyltrichlorosilane-E3*	3.00	4.88	3.00	0.00	15.00	3.00	3.00	0.00	7.88	
216	Ethyl ether * #(T3)	0.00	1.88	20.00	2.00	57.00	4.00	6.00	0.00	7.88	
217	Perchloromethyl mercaptan	3.00	6.75	3.00	0.00	5.00	1.00	1.00	0.00	7.75	
218	Methylene bisphenyl isocyanate * #(E3)	0.00	3.75	12.00	1.00	25.00	3.00	4.00	0.00	7.75	
219	Phosphine	3.00	4.25	9.00	0.00	13.00	3.00	3.00	0.50	7.75	
220	Ethylenediamine	0.00	3.75	12.00	1.00	32.00	3.00	4.00	0.00	7.75	
221	Camphor (synthetic) * #(T3)	0.00	3.75	13.00	1.00	37.00	3.00	4.00	0.00	7.75	
222	Quinone * #(T3)	0.00	3.75	12.00	1.00	25.00	3.00	4.00	0.00	7.75	
223	N,N-Dimethylaniline * #(T3)	0.00	3.75	11.00	1.00	41.00	3.00	4.00	0.00	7.75	
224	o-Toluidine * #(T3)	0.00	3.75	11.00	1.00	32.00	3.00	4.00	0.00	7.75	
225	Potassium chlorate	0.00	3.75	11.00	1.00	38.00	3.00	4.00	0.00	7.75	
226	Cyclohexanol * #(T3)	0.00	3.75	15.00	1.00	27.00	3.00	4.00	0.00	7.75	
227	Dimethyl acetamide * #(T3)	0.00	3.75	11.00	1.00	38.00	3.00	4.00	0.00	7.75	
228	p-Dichlorobenzene * #(T3)	0.00	3.75	10.00	1.00	38.00	3.00	4.00	0.00	7.75	
229	Methyl (n-amyl) ketone * #(T3)	0.00	3.75	11.00	1.00	20.00	3.00	4.00	0.00	7.75	
230	Diacetone alcohol * #(T3)	0.00	3.75	11.00	1.00	30.00	3.00	4.00	0.00	7.75	
231	Acetonitrile	0.00	3.13	19.00	1.00	50.00	3.00	4.00	0.50	7.63	
232	n-Propyl alcohol * #(T3)	0.00	3.13	18.00	1.00	50.00	3.00	4.00	0.50	7.63	
233	n-Amyl acetate * #(T3)	0.00	3.13	14.00	1.00	37.00	3.00	4.00	0.50	7.63	
234	Ethyl bromide * #(T3)	0.00	3.13	10.00	1.00	37.00	3.00	4.00	0.50	7.63	
235	Iron, pentacarbonyl- T3	3.00	5.50	1.00	0.00	8.00	2.00	2.00	0.00	7.50	
236	Crag (r) herbicide * #(T3)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	2.50	7.50	
237	Aldicarb *T#	0.00	5.00	4.00	0.00	6.00	2.00	2.00	0.50	7.50	
238	Chloroform-D	0.00	5.00	6.00	0.00	10.00	2.00	2.00	0.50	7.50	
239	Cumene	0.00	2.50	20.00	2.00	39.00	3.00	5.00	0.00	7.50	
240	n-Pentane * #(T3)	0.00	2.50	20.00	2.00	47.00	3.00	5.00	0.00	7.50	
241	Trimethylamine-E3*	2.00	4.50	8.00	0.00	41.00	3.00	3.00	0.00	7.50	
242	Ethane T3	0.00	2.50	28.00	2.00	33.00	3.00	5.00	0.00	7.50	
243	o-Anisidine * #(T3)	0.00	4.38	5.00	0.00	24.00	3.00	3.00	0.00	7.38	
244	Acetylene tetrabromide * #(T3)	0.00	4.38	6.00	0.00	11.00	3.00	3.00	0.00	7.38	
245	2-chloroacetonophenone *IDLH	0.00	4.38	6.00	0.00	11.00	3.00	3.00	0.00	7.38	
246	Triphenyl phosphate*	0.00	4.38	5.00	0.00	21.00	3.00	3.00	0.00	7.38	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
247	Ammonium sulfamate * # (T3)	7773-06-0	107.10	2.00	4.38	0.00	0.00	0.00	0.00
248	Arsenic trichloride T3	7784-34-1	12.50	3.00	4.38	10.00	6.25	2.19	1.75
249	Chlorobromomethane # (T3)	74-97-5	2000.00	1.00	4.38	117.00	4.46	1.56	0.09
250	Thiodiglycol-Alfa MSDS* B71	111-48-8	4150.00	0.00	4.38	0.00	4.24	1.48	0.00
251	Dicofol # (T3)	115-32-2	0.50	5.00	3.75	0.00	0.00	0.00	0.00
252	Acrolein	107-02-8	1.40	4.00	1.25	210.00	1.94	0.68	101.75
253	Sodium azide # (T3)	26628-22-8	4.69	4.00	3.75	0.00	2.20	0.77	0.00
254	2-Diethylaminoethanol # (I)	100-37-8	100.00	3.00	3.75	21.00	4.03	1.41	0.30
255	Bromoxynil # (T3-as naptha solution only)	1689-84-5	80.00	3.00	3.75	0.00	0.00	0.00	0.00
256	Bromobenzene # (T3)	108-86-1	350.00	2.00	3.75	5.00	5.41	1.89	0.03
257	1,2-dimethylimidazole LD50	1739-84-0	417.00	2.00	3.75	1.00	0.00	0.00	0.00
258	1-methyl imidazole LD50	616-47-7	417.00	2.00	3.75	0.48	2.83	0.99	0.00
259	Trichlorosilane-E3*	10025-78-2	25.00	3.00	1.25	504.10	4.68	1.64	33.00
260	Dimethyl sulfate	77-78-1	1.60	4.00	3.13	0.30	4.35	1.52	0.29
261	Benzyl chloride # (E3)	100-44-7	25.00	3.00	3.13	1.00	4.40	1.54	0.06
262	Furfuryl alcohol # (T3)	98-00-0	75.00	3.00	3.13	0.40	3.40	1.19	0.01
263	Diethylamine # (T3)	109-89-7	200.00	2.00	3.13	195.00	2.50	0.87	0.85
264	Triethylamine # (T3)	121-44-8	200.00	2.00	3.13	53.50	3.48	1.22	0.33
265	Piperidine-T3*	110-89-4	250.00	2.00	3.13	28.30	3.00	1.05	0.12
266	n-Heptane # (T3)	142-82-5	750.00	2.00	3.13	37.49	3.50	1.22	0.06
267	Methyl Cellosolve (r) # (I)	109-86-4	200.00	2.00	3.13	6.20	2.62	0.92	0.03
268	Pyridine # (T3)	110-86-1	1000.00	2.00	3.13	18.00	2.72	0.95	0.02
269	Isoamyl acetate # (T3)	123-92-2	1000.00	2.00	3.13	4.00	4.49	1.57	0.01
270	Chlorine pentafluoride T3	13637-63-3	60.00	3.00	3.13	2550.21	4.50	1.57	66.88
271	Bromine pentafluoride T3	7789-30-2	35.00	3.00	3.13	328.00	6.05	2.12	19.82
272	Isopropyl acetate # (T3)	108-21-4	1800.00	1.00	3.13	43.00	3.50	1.22	0.03
273	tert-Butyl alcohol # (T3)	75-65-0	1600.00	1.00	3.13	31.00	2.55	0.89	0.02
274	n-Propyl acetate # (I)	109-60-4	1700.00	1.00	3.13	25.00	3.50	1.22	0.02
275	sec-Butyl alcohol # (T3)	78-92-2	2000.00	1.00	3.13	12.00	2.60	0.91	0.01
276	Methyl acetate # (I)	79-20-9	3100.00	0.00	3.13	170.00	2.80	0.98	0.05
277	Pentachlorophenol * # (T3)	87-86-5	0.23	5.00	5.00	0.00	9.20	3.22	0.00
278	Thallium sulfate # (T3 of T1)	7446-18-6	1.77	4.00	5.00	0.00	0.00	0.00	0.00
279	1,1,2,2-Tetrachloroethane # (T3)	79-34-5	100.00	3.00	5.00	5.00	5.79	2.02	0.10
280	Dioxane	123-91-1	760.00	2.00	2.50	29.00	3.03	1.06	0.04
281	Lithium # (T3)	7439-93-2	1409.20	1.00	2.50	0.00	0.00	0.00	0.00
282	Trifluorobromomethane # (T3)	75-63-8	40000.00	0.00	5.00	12153.00	5.14	1.80	0.55
283	Dichlorotetrafluoroethane # (T3)	76-14-2	15000.00	0.00	5.00	1427.00	5.93	2.07	0.20
284	Azinphosmethyl * # (T3)	86-50-0	0.77	5.00	4.38	0.00	0.00	0.00	0.00
285	alpha-Chloroacetophenone * # (I)	532-27-4	2.37	4.00	4.38	0.01	5.20	1.82	0.00
286	Phenamiphos # (T3)	22224-92-6	3.22	4.00	4.38	0.00	1.19	0.42	0.00
287	Acrylonitrile	107-13-1	100.00	3.00	1.88	100.00	1.90	0.66	0.66
288	Methyl hydrazine	60-34-4	2.70	4.00	1.88	49.60	1.60	0.56	10.28
289	Sodium hydrosulfite-T3*	7775-14-6	35.11	3.00	1.88	0.00	0.00	0.00	0.00
290	Methyl mercaptan	74-93-1	68.00	3.00	1.88	1535.00	1.66	0.58	13.10
291	Dimethyl dichlorosilane T3	75-78-5	75.00	3.00	1.88	100.00	4.45	1.56	2.07
292	Carbonyl sulfide T3	463-58-1	125.00	2.00	1.88	9090.00	2.10	0.73	53.40
293	Tetramethylsilane-T3*	75-76-3	125.00	2.00	1.88	589.00	3.00	1.05	4.94
294	Trimethylchlorosilane-E3*	75-77-44	150.00	2.00	1.88	608.00	3.70	1.29	5.24
295	Thionyl chloride-E3*	7719-09-715	10.00	4.00	3.75	100.00	0.00	0.00	0.00
296	Chlorosulfonic acid E3	7790-94-5	6.29	4.00	3.75	1.55	4.02	1.41	0.35

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
247	Ammonium sulfamate * #(T3)	0.00	4.38	8.00	0.00	14.00	3.00	3.00	0.00	7.38	
248	Arsenic trichloride T3	2.00	6.38	1.00	0.00	5.00	1.00	1.00	0.00	7.38	
249	Chlorobromomethane #(T3)	0.00	4.38	7.00	0.00	11.00	3.00	3.00	0.00	7.38	
250	Thiodiglycol-Alfa MSDS*B71	0.00	4.38	9.00	0.00	12.00	3.00	3.00	0.00	7.38	
251	Dicofol #(T3)	0.00	3.75	8.00	0.00	18.00	3.00	3.00	0.50	7.25	
252	Acrolein	3.00	4.25	7.00	0.00	12.00	3.00	3.00	0.00	7.25	
253	Sodium azide #(T3)	0.00	3.75	8.00	0.00	35.00	3.00	3.00	0.50	7.25	
254	2-Diethylaminoethanol #(I)	0.00	3.75	0.00	0.00	23.00	3.00	3.00	0.50	7.25	
255	Bromoxynil #(T3-as naptha solution only)	0.00	3.75	5.00	0.00	14.00	3.00	3.00	0.50	7.25	
256	Bromobenzene #(T3)	0.00	3.75	8.00	0.00	34.00	3.00	3.00	0.50	7.25	
257	1,2-dimethylimidazole LD50	0.00	3.75	5.00	0.00	11.00	3.00	3.00	0.50	7.25	
258	1-methyl imidazole LD50	0.00	3.75	8.00	0.00	22.00	3.00	3.00	0.50	7.25	
259	Trichlorosilane-E3*	3.00	4.25	4.00	0.00	15.00	3.00	3.00	0.00	7.25	
260	Dimethyl sulfate	0.00	3.13	12.00	1.00	39.00	3.00	4.00	0.00	7.13	
261	Benzyl chloride #(E3)	0.00	3.13	12.00	1.00	41.00	3.00	4.00	0.00	7.13	
262	Furfuryl alcohol #(T3)	0.00	3.13	12.00	1.00	38.00	3.00	4.00	0.00	7.13	
263	Diethylamine #(T3)	0.00	3.13	16.00	1.00	39.00	3.00	4.00	0.00	7.13	
264	Triethylamine #(T3)	0.00	3.13	17.00	1.00	46.00	3.00	4.00	0.00	7.13	
265	Piperidine-T3*	0.00	3.13	11.00	1.00	21.00	3.00	4.00	0.00	7.13	
266	n-Heptane #(T3)	0.00	3.13	17.00	1.00	48.00	3.00	4.00	0.00	7.13	
267	Methyl Cellosolve (r) #(I)	0.00	3.13	13.00	1.00	30.00	3.00	4.00	0.00	7.13	
268	Pyridine #(T3)	0.00	3.13	15.00	1.00	49.00	3.00	4.00	0.00	7.13	
269	Isoamyl acetate #(T3)	0.00	3.13	13.00	1.00	46.00	3.00	4.00	0.00	7.13	
270	Chlorine pentafluoride T3	3.00	6.13	1.00	0.00	1.00	1.00	1.00	0.00	7.13	
271	Bromine pentafluoride T3	3.00	6.13	1.00	0.00	3.00	1.00	1.00	0.00	7.13	
272	Isopropyl acetate #(T3)	0.00	3.13	14.00	1.00	41.00	3.00	4.00	0.00	7.13	
273	tert-Butyl alcohol #(T3)	0.00	3.13	13.00	1.00	37.00	3.00	4.00	0.00	7.13	
274	n-Propyl acetate #(I)	0.00	3.13	12.00	1.00	31.00	3.00	4.00	0.00	7.13	
275	sec-Butyl alcohol #(T3)	0.00	3.13	12.00	1.00	24.00	3.00	4.00	0.00	7.13	
276	Methyl acetate #(I)	0.00	3.13	15.00	1.00	33.00	3.00	4.00	0.00	7.13	
277	Pentachlorophenol * #(T3)	0.00	5.00	4.00	0.00	7.00	2.00	2.00	0.00	7.00	
278	Thallium sulfate #(T3 of T1)	0.00	5.00	4.00	0.00	8.00	2.00	2.00	0.00	7.00	
279	1,1,2,2-Tetrachloroethane #(T3)	0.00	5.00	6.00	0.00	10.00	2.00	2.00	0.00	7.00	
280	Dioxane	0.00	2.50	12.00	1.00	34.00	3.00	4.00	0.50	7.00	
281	Lithium #(T3)	0.00	2.50	11.00	1.00	23.00	3.00	4.00	0.50	7.00	
282	Trifluorobromomethane #(T3)	0.00	5.00	7.00	0.00	9.00	2.00	2.00	0.00	7.00	
283	Dichlorotetrafluoroethane #(T3)	0.00	5.00	6.00	0.00	6.00	2.00	2.00	0.00	7.00	
284	Azinphosmethyl * #(T3)	0.00	4.38	5.00	0.00	7.00	2.00	2.00	0.50	6.88	
285	alpha-Chloroacetophenone * #(I)	0.00	4.38	3.00	0.00	10.00	2.00	2.00	0.50	6.88	
286	Phenamiphos #(T3)	0.00	4.38	3.00	0.00	6.00	2.00	2.00	0.50	6.88	
287	Acrylonitrile	0.00	1.88	16.00	1.00	53.00	4.00	5.00	0.00	6.88	
288	Methyl hydrazine	3.00	4.88	4.00	0.00	6.00	2.00	2.00	0.00	6.88	
289	Sodium hydrosulfite-T3*	0.00	1.88	20.00	2.00	48.00	3.00	5.00	0.00	6.88	
290	Methyl mercaptan	3.00	4.88	6.00	0.00	9.00	2.00	2.00	0.00	6.88	
291	Dimethyl dichlorosilane T3	2.00	3.88	4.00	0.00	20.00	3.00	3.00	0.00	6.88	
292	Carbonyl sulfide T3	3.00	4.88	2.00	0.00	10.00	2.00	2.00	0.00	6.88	
293	Tetramethylsilane-T3*	2.00	3.88	6.00	0.00	15.00	3.00	3.00	0.00	6.88	
294	Trimethylchlorosilane-E3*	2.00	3.88	0.00	0.00	30.00	3.00	3.00	0.00	6.88	
295	Thionyl chloride-E3*	0.00	3.75	0.00	0.00	23.00	3.00	3.00	0.00	6.75	
296	Chlorosulfonic acid E3	0.00	3.75	6.00	0.00	38.00	3.00	3.00	0.00	6.75	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
297	Phosphorus pentachloride * #(T3)	10026-13-8	8.22	4.00	3.75	0.01	7.20	2.52	0.00
298	Ethylene chlorohydrin	107-07-3	12.00	3.00	3.75	7.18	2.78	0.97	0.58
299	Dichloroethyl ether #(T3)	111-44-4	100.00	3.00	3.75	0.70	4.93	1.72	0.01
300	Monomethyl aniline #(T3)	100-61-8	100.00	3.00	3.75	0.30	3.90	1.36	0.00
301	Phenylhydrazine #(T3)	100-63-0	15.00	3.00	3.75	0.04	4.00	1.40	0.00
302	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	88-72-2; 99-08-1; 99-99-0	60.00	3.00	3.75	0.10	4.72	1.65	0.00
303	Potassium perchlorate-T3*	7778-74-7	88.24	3.00	3.75	0.00	4.80	1.68	0.00
304	Triethyl phosphite-T3*	122-52-1	200.00	2.00	3.75	3.19	0.00	0.00	0.00
305	n-Butyl glycidyl ether #(T3)	2426-08-6	250.00	2.00	3.75	3.20	4.50	1.57	0.02
306	Methyl Cellosolve (r) acetate #(I)	110-49-6	200.00	2.00	3.75	2.00	4.07	1.42	0.01
307	Diisobutyl ketone #(T3)	108-83-8	200.00	2.00	3.75	1.70	4.90	1.71	0.01
308	2-Ethoxyethanol #(T3)	110-80-5	500.00	2.00	3.75	3.80	3.10	1.08	0.01
309	Methyl isobutyl carbolin #(I)	108-11-2	400.00	2.00	3.75	3.00	3.52	1.23	0.01
310	o-Dichlorobenzene #(T3)	95-50-1	200.00	2.00	3.75	1.00	5.05	1.77	0.01
311	2-Ethoxyethyl acetate #(T3)	111-15-9	500.00	2.00	3.75	1.20	4.72	1.65	0.00
312	Dipropylene glycol methyl ether #(T3)	34590-94-8	400.00	2.00	3.75	0.50	5.11	1.79	0.00
313	2-Butoxyethanol #(T3)	111-76-2	700.00	2.00	3.75	0.76	4.07	1.42	0.00
314	Parathion *	56-38-2	0.17	5.00	3.13	0.00	10.00	3.50	0.00
315	Thioglycol TEEL-3	60-24-2	200.00	2.00	3.13	1.00	2.69	0.94	0.00
316	Silane-T3*	7803-62-5	4000.00	0.00	0.63	54300.00	1.30	0.45	6.17
317	Phosphamidon #(T3)	13171-21-6	0.49	5.00	5.00	0.00	0.00	0.00	0.00
318	Sodium fluoracetate #(T3)	62-74-8	0.61	5.00	5.00	0.00	0.00	0.00	0.00
319	Chloromethyl ether E3	542-88-1	0.50	5.00	2.50	30.00	4.00	1.40	83.92
320	Pirimicarb #(T3 as carbamate ester)	5947-49-9	1.63	4.00	5.00	0.00	0.00	0.00	0.00
321	Antimony oxide *T3	1309-64-4	6.43	4.00	5.00	0.00	0.00	0.00	0.00
322	Thallium #(T3)	7440-28-0	1.77	4.00	5.00	0.00	0.00	0.00	0.00
323	Acetone cyanohydrin, stabilized *T-3	75-86-5	15.00	3.00	2.50	0.80	2.93	1.02	0.05
324	Toxaphene #(T3 based on Keplinger 1963 study)	8001-35-2	29.53	3.00	5.00	0.40	14.30	5.00	0.07
325	Acrylamide * #(T3)	79-06-1	20.64	3.00	2.50	0.01	2.45	0.86	0.00
326	DDT * #(T3)	50-29-3	34.49	3.00	5.00	0.00	0.00	0.00	0.00
327	Allylamine *T3	107-11-9	18.00	3.00	2.50	192.77	2.00	0.70	7.49
328	Ethylamine	75-04-7	270.00	2.00	2.50	400.00	1.56	0.55	0.81
329	Isopropylamine #(T3)	75-31-0	750.00	2.00	2.50	580.00	2.03	0.71	0.55
330	Carbon disulfide	75-15-0	480.00	2.00	2.50	360.00	2.67	0.93	0.70
331	Ethyl silicate #(E3)	78-10-4	300.00	2.00	2.50	1.00	7.20	2.52	0.01
332	Isopropyl ether #(T3)	108-20-3	1400.00	1.00	2.50	119.00	3.52	1.23	0.10
333	Morpholine #(T3)	110-91-8	1400.00	1.00	2.50	6.60	3.00	1.05	0.00
334	Methyl chloride	74-87-3	3000.00	0.00	2.50	3672.00	1.80	0.63	0.77
335	Methylal #(T3)	109-87-5	2200.00	0.00	2.50	337.08	2.60	0.91	0.14
336	Isopentane-T3*	78-78-4	20000.00	0.00	2.50	595.00	2.48	0.87	0.03
337	1-Butene T3	106-98-9	500000.00	0.00	2.50	3480.00	1.93	0.67	0.00
338	1,1,2-Trichloroethane #(T3)	79-00-5	100.00	3.00	4.38	16.70	4.63	1.62	0.27
339	Triethanolamine-T3*	102-71-6	81.94	3.00	4.38	0.00	5.14	1.80	0.00
340	1,1-Dimethylhydrazine	57-14-7	11.00	3.00	1.88	157.00	1.94	0.68	9.68
341	Tetramethylenedisulfotetramine #(T3 as triethylentetramine)	126-33-0	150.00	2.00	4.38	0.00	0.00	0.00	0.00

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
297	Phosphorus pentachloride * #(T3)	0.00	3.75	7.00	0.00	17.00	3.00	3.00	0.00	6.75	
298	Ethylene chlorohydrin	0.00	3.75	6.00	0.00	17.00	3.00	3.00	0.00	6.75	
299	Dichloroethyl ether #(T3)	0.00	3.75	4.00	0.00	12.00	3.00	3.00	0.00	6.75	
300	Monomethyl aniline #(T3)	0.00	3.75	6.00	0.00	17.00	3.00	3.00	0.00	6.75	
301	Phenylhydrazine #(T3)	0.00	3.75	8.00	0.00	23.00	3.00	3.00	0.00	6.75	
302	Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used	0.00	3.75	7.00	0.00	19.00	3.00	3.00	0.00	6.75	
303	Potassium perchlorate-T3*	0.00	3.75	7.00	0.00	27.00	3.00	3.00	0.00	6.75	
304	Triethyl phosphite-T3*	0.00	3.75	6.00	0.00	13.00	3.00	3.00	0.00	6.75	
305	n-Butyl glycidyl ether #(T3)	0.00	3.75	7.00	0.00	13.00	3.00	3.00	0.00	6.75	
306	Methyl Cellosolve (r) acetate #(I)	0.00	3.75	6.00	0.00	12.00	3.00	3.00	0.00	6.75	
307	Diisobutyl ketone #(T3)	0.00	3.75	8.00	0.00	13.00	3.00	3.00	0.00	6.75	
308	2-Ethoxyethanol #(T3)	0.00	3.75	1.00	0.00	31.00	3.00	3.00	0.00	6.75	
309	Methyl isobutyl carbolin #(I)	0.00	3.75	9.00	0.00	14.00	3.00	3.00	0.00	6.75	
310	o-Dichlorobenzene #(T3)	0.00	3.75	9.00	0.00	37.00	3.00	3.00	0.00	6.75	
311	2-Ethoxyethyl acetate #(T3)	0.00	3.75	8.00	0.00	17.00	3.00	3.00	0.00	6.75	
312	Dipropylene glycol methyl ether #(T3)	0.00	3.75	7.00	0.00	35.00	3.00	3.00	0.00	6.75	
313	2-Butoxyethanol #(T3)	0.00	3.75	1.00	0.00	43.00	3.00	3.00	0.00	6.75	
314	Parathion *	0.00	3.13	3.00	0.00	11.00	3.00	3.00	0.50	6.63	
315	Thioglycol TEEL-3	0.00	3.13	6.00	0.00	17.00	3.00	3.00	0.50	6.63	
316	Silane-T3*	2.00	2.63	16.00	1.00	30.00	3.00	4.00	0.00	6.63	
317	Phosphamidon #(T3)	0.00	5.00	3.00	0.00	4.00	1.00	1.00	0.50	6.50	
318	Sodium fluoracetate #(T3)	0.00	5.00	3.00	0.00	3.00	1.00	1.00	0.50	6.50	
319	Chloromethyl ether E3	3.00	5.50	1.00	0.00	1.00	1.00	1.00	0.00	6.50	
320	Pirimicarb #(T3 as carbamate ester)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.50	6.50	
321	Antimony oxide *T3	0.00	5.00	2.00	0.00	4.00	1.00	1.00	0.50	6.50	
322	Thallium #(T3)	0.00	5.00	5.00	0.00	5.00	1.00	1.00	0.50	6.50	
323	Acetone cyanohydrin, stabilized *T-3	0.00	2.50	13.00	1.00	22.00	3.00	4.00	0.00	6.50	
324	Toxaphene #(T3 based on Keplinger 1963 study)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.50	6.50	
325	Acrylamide * #(T3)	0.00	2.50	14.00	1.00	48.00	3.00	4.00	0.00	6.50	
326	DDT * #(T3)	0.00	5.00	2.00	0.00	3.00	1.00	1.00	0.50	6.50	
327	Allylamine *T3	2.00	4.50	5.00	0.00	9.00	2.00	2.00	0.00	6.50	
328	Ethylamine	0.00	2.50	14.00	1.00	33.00	3.00	4.00	0.00	6.50	
329	Isopropylamine #(T3)	0.00	2.50	13.00	1.00	30.00	3.00	4.00	0.00	6.50	
330	Carbon disulfide	0.00	2.50	16.00	1.00	45.00	3.00	4.00	0.00	6.50	
331	Ethyl silicate #(E3)	0.00	2.50	10.00	1.00	39.00	3.00	4.00	0.00	6.50	
332	Isopropyl ether #(T3)	0.00	2.50	15.00	1.00	24.00	3.00	4.00	0.00	6.50	
333	Morpholine #(T3)	0.00	2.50	12.00	1.00	32.00	3.00	4.00	0.00	6.50	
334	Methyl chloride	0.00	2.50	17.00	1.00	46.00	3.00	4.00	0.00	6.50	
335	Methylal #(T3)	0.00	2.50	10.00	1.00	13.00	3.00	4.00	0.00	6.50	
336	Isopentane-T3*	0.00	2.50	17.00	1.00	29.00	3.00	4.00	0.00	6.50	
337	1-Butene T3	0.00	2.50	15.00	1.00	50.00	3.00	4.00	0.00	6.50	
338	1,1,2-Trichloroethane #(T3)	0.00	4.38	2.00	0.00	7.00	2.00	2.00	0.00	6.38	
339	Triethanolamine-T3*	0.00	4.38	6.00	0.00	6.00	2.00	2.00	0.00	6.38	
340	1,1-Dimethylhydrazine	2.00	3.88	7.00	0.00	9.00	2.00	2.00	0.50	6.38	
341	Tetramethylenedisulfotetramine #(T3 as triethylentetramine)	0.00	4.38	5.00	0.00	10.00	2.00	2.00	0.00	6.38	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
342	Nickel Carbonyl-T3*	13463-39-3	0.16	5.00	1.25	400.00	5.89	2.06	5148.60
343	2-thiophencarbonitrile (as CN)	1003-31-2	25.00	3.00	3.75	0.30	0.00	0.00	0.00
344	Trypan blue #(T3)	72-57-1	14.02	3.00	3.75	0.00	0.00	0.00	0.00
345	Propylene oxide	75-56-9	870.00	2.00	1.25	445.00	2.00	0.70	0.36
346	Isoflurane #(IDLH of halogenated ethers-general)	26675-46-7	2000.00	1.00	3.75	238.00	6.30	2.20	0.26
347	Nitrogen trifluoride #(T3)	7783-54-2	800.00	2.00	1.25	1500.00	2.46	0.86	1.61
348	Sulfur monochloride	10025-67-9	15.00	3.00	3.13	7.00	4.66	1.63	0.76
349	Cyclohexylamine T3	108-91-8	30.00	3.00	3.13	11.00	3.42	1.20	0.44
350	N-Ethylmorpholine #(I)	100-74-3	100.00	3.00	3.13	6.20	4.00	1.40	0.09
351	p-Nitroaniline * #(T3)	100-01-6	53.10	3.00	3.13	0.00	4.77	1.67	0.00
352	Diisopropylamine #(T3)	108-18-9	200.00	2.00	3.13	74.00	3.50	1.22	0.45
353	n-Butylamine #(T3)	109-73-9	300.00	2.00	3.13	72.00	2.52	0.88	0.21
354	Propylene dichloride #(T3)	78-87-5	400.00	2.00	3.13	42.00	3.90	1.36	0.14
355	Octane #(T3)	111-65-9	1000.00	2.00	3.13	10.00	0.00	0.00	0.00
356	Isophorone #(T3)	78-59-1	200.00	2.00	3.13	0.20	4.77	1.67	0.00
357	Ethyl formate #(I)	109-94-4	1500.00	1.00	3.13	200.00	2.56	0.90	0.12
358	Cyclohexene #(T3)	110-83-8	2000.00	1.00	3.13	160.00	2.80	0.98	0.08
359	Methylcyclohexane #(T3)	108-87-2	1200.00	1.00	3.13	37.00	3.39	1.19	0.04
360	2-Pentanone #(T3)	107-87-9	1500.00	1.00	3.13	12.00	3.00	1.05	0.01
361	2-chlorobenzoyl Chloride	609-65-4	1.00	5.00	2.50	0.04	6.03	2.11	0.09
362	Phosdrin * #(T3) (Mevinphos)	7786-34-7	0.44	5.00	5.00	0.00	7.50	2.62	0.01
363	TEDP * #(T3)	3689-24-5	0.76	5.00	5.00	0.00	0.00	0.00	0.00
364	Dinitroresol * #(T3)	534-52-1	0.62	5.00	5.00	0.00	6.80	2.38	0.00
365	EPN * #(T3)	2104-64-5	0.38	5.00	5.00	0.00	0.00	0.00	0.00
366	Endrin * #(T3)	72-20-8	0.13	5.00	5.00	0.00	0.00	0.00	0.00
367	Difethialone (T3 based on warfarin)	104653-34-1	0.67	5.00	5.00	0.00	0.00	0.00	0.00
368	Heptachlor * #(T3)	76-44-8	2.29	4.00	5.00	0.00	13.00	4.55	0.00
369	Tetryl * #(T3)	479-45-8	42.57	3.00	5.00	1.00	0.00	0.00	0.00
370	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	300-76-5	12.83	3.00	5.00	0.00	0.00	0.00	0.00
371	Benzoyl peroxide* #(T3)	94-36-0	50.47	3.00	0.00	0.00	0.00	0.00	0.00
372	Methoxychlor * #(T3)	72-43-5	35.37	3.00	5.00	0.00	0.00	0.00	0.00
373	2,4,5-T * #(T3)	93-76-5	23.92	3.00	5.00	0.00	9.29	3.25	0.00
374	ANTU * #(T3)	86-88-4	12.10	3.00	5.00	0.00	6.99	2.44	0.00
375	Difluorodibromomethane #(I)	75-61-6	2000.00	1.00	5.00	620.00	7.20	2.52	0.78
376	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	76-11-9	2000.00	1.00	5.00	40.00	7.04	2.46	0.05
377	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	76-12-0	2000.00	1.00	5.00	40.00	7.04	2.46	0.05
378	Dichloromonofluoromethane #(T3)	75-43-4	5000.00	0.00	5.00	1193.00	3.57	1.25	0.30
379	TEPP * #(T3)	107-49-3	0.42	5.00	4.38	0.00	0.00	0.00	0.00
380	Methyl isocyanate	624-83-9	0.20	5.00	1.88	10.00	1.42	0.50	24.83
381	Di-syston #(T3)	298-04-4	6.68	4.00	4.38	0.00	0.00	0.00	0.00
382	Oxydemeton-methyl #(I)	301-12-2	3.97	4.00	4.38	0.00	0.00	0.00	0.00
383	Epichlorohydrin #(I)	106-89-8	75.00	3.00	1.88	10.00	3.29	1.15	0.15
384	Diketene	674-82-8	2.00	4.00	1.88	10.00	2.90	1.01	5.07
385	Cyanogen T3	460-19-5	15.00	3.00	1.88	3876.00	1.80	0.63	162.63
386	Hexachlorobenzene	118-74-1	17.17	3.00	4.38	0.00	9.80	3.43	0.00
387	Tetranitromethane	509-14-8	1.70	4.00	1.88	13.00	6.80	2.38	18.18
388	Acetyl Chloride *T3	75-36-5	125.00	2.00	1.88	135.00	2.10	0.73	0.79

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
342	Nickel Carbonyl-T3*	4.00	5.25	1.00	0.00	2.00	1.00	1.00	0.00	6.25	
343	2-thiophencarbonitrile (as CN)	0.00	3.75	4.00	0.00	9.00	2.00	2.00	0.50	6.25	
344	Trypan blue #(T3)	0.00	3.75	6.00	0.00	10.00	2.00	2.00	0.50	6.25	
345	Propylene oxide	0.00	1.25	16.00	1.00	54.00	4.00	5.00	0.00	6.25	
346	Isoflurane #(IDLH of halogenated ethers-general)	0.00	3.75	2.00	0.00	8.00	2.00	2.00	0.50	6.25	
347	Nitrogen trifluoride #(T3)	2.00	3.25	7.00	0.00	16.00	3.00	3.00	0.00	6.25	
348	Sulfur monochloride	0.00	3.13	8.00	0.00	15.00	3.00	3.00	0.00	6.13	
349	Cyclohexylamine T3	0.00	3.13	8.00	0.00	32.00	3.00	3.00	0.00	6.13	
350	N-Ethylmorpholine #(I)	0.00	3.13	7.00	0.00	12.00	3.00	3.00	0.00	6.13	
351	p-Nitroaniline * #(T3)	0.00	3.13	5.00	0.00	47.00	3.00	3.00	0.00	6.13	
352	Diisopropylamine #(T3)	0.00	3.13	6.00	0.00	18.00	3.00	3.00	0.00	6.13	
353	n-Butylamine #(T3)	0.00	3.13	8.00	0.00	19.00	3.00	3.00	0.00	6.13	
354	Propylene dichloride #(T3)	0.00	3.13	9.00	0.00	16.00	3.00	3.00	0.00	6.13	
355	Octane #(T3)	0.00	3.13	8.00	0.00	15.00	3.00	3.00	0.00	6.13	
356	Isophorone #(T3)	0.00	3.13	7.00	0.00	13.00	3.00	3.00	0.00	6.13	
357	Ethyl formate #(I)	0.00	3.13	6.00	0.00	16.00	3.00	3.00	0.00	6.13	
358	Cyclohexene #(T3)	0.00	3.13	9.00	0.00	14.00	3.00	3.00	0.00	6.13	
359	Methylcyclohexane #(T3)	0.00	3.13	9.00	0.00	17.00	3.00	3.00	0.00	6.13	
360	2-Pentanone #(T3)	0.00	3.13	8.00	0.00	13.00	3.00	3.00	0.00	6.13	
361	2-chlorobenzoyl Chloride	0.00	2.50	5.00	0.00	26.00	3.00	3.00	0.50	6.00	
362	Phosdrin * #(T3) (Mevinphos)	0.00	5.00	4.00	0.00	5.00	1.00	1.00	0.00	6.00	
363	TEDP * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
364	Dinitrocresol * #(T3)	0.00	5.00	2.00	0.00	3.00	1.00	1.00	0.00	6.00	
365	EPN * #(T3)	0.00	5.00	2.00	0.00	4.00	1.00	1.00	0.00	6.00	
366	Endrin * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
367	Difethialone (T3 based on warfarin)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
368	Heptachlor * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
369	Tetryl * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
370	Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I)	0.00	5.00	3.00	0.00	4.00	1.00	1.00	0.00	6.00	
371	Benzoyl peroxide* #(T3)	0.00	0.00	22.00	2.00	70.00	4.00	6.00	0.00	6.00	
372	Methoxychlor * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
373	2,4,5-T * #(T3)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
374	ANTU * #(T3)	0.00	5.00	3.00	0.00	3.00	1.00	1.00	0.00	6.00	
375	Difluorodibromomethane #(I)	0.00	5.00	2.00	0.00	3.00	1.00	1.00	0.00	6.00	
376	1,1,1,2-Tetrachloro 2,2-difluoroethane #(I)	0.00	5.00	2.00	0.00	3.00	1.00	1.00	0.00	6.00	
377	1,1,2,2-Tetrachloro 1,2-difluoroethane #(I)	0.00	5.00	1.00	0.00	1.00	1.00	1.00	0.00	6.00	
378	Dichloromonofluoromethane #(T3)	0.00	5.00	3.00	0.00	5.00	1.00	1.00	0.00	6.00	
379	TEPP * #(T3)	0.00	4.38	1.00	0.00	1.00	1.00	1.00	0.50	5.88	
380	Methyl isocyanate	3.00	4.88	2.00	0.00	2.00	1.00	1.00	0.00	5.88	
381	Di-syston #(T3)	0.00	4.38	3.00	0.00	3.00	1.00	1.00	0.50	5.88	
382	Oxydemeton-methyl #(I)	0.00	4.38	3.00	0.00	3.00	1.00	1.00	0.50	5.88	
383	Epichlorohydrin #(I)	0.00	1.88	15.00	1.00	34.00	3.00	4.00	0.00	5.88	
384	Diketene	2.00	3.88	3.00	0.00	8.00	2.00	2.00	0.00	5.88	
385	Cyanogen T3	3.00	4.88	2.00	0.00	2.00	1.00	1.00	0.00	5.88	
386	Hexachlorobenzene	0.00	4.38	1.00	0.00	2.00	1.00	1.00	0.50	5.88	
387	Tetranitromethane	3.00	4.88	1.00	0.00	1.00	1.00	1.00	0.00	5.88	
388	Acetyl Chloride *T3	0.00	1.88	10.00	1.00	37.00	3.00	4.00	0.00	5.88	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
389	Methyl acrylate #(T3)	96-33-3	150.00	2.00	1.88	65.00	3.00	1.05	0.45
390	Vinyl acetate monomer-E3*	108-05-4	500.00	2.00	1.88	83.00	3.00	1.05	0.17
391	Ethyl acrylate	140-88-5	240.00	2.00	1.88	29.30	3.45	1.21	0.15
392	Methyl methacrylate	80-62-6	570.00	2.00	1.88	29.00	3.50	1.22	0.06
393	Perchloryl fluoride #(T3)	7616-94-6	100.00	3.00	1.88	8943.90	0.64	0.22	20.01
394	Furan T3	110-00-9	19.00	3.00	1.88	493.00	2.30	0.80	20.87
395	Crotonaldehyde	4170-30-3	14.00	3.00	1.88	19.00	2.41	0.84	1.14
396	1,3-pentadiene-R*B97	504-60-9	280.00	2.00	1.88	380.00	2.35	0.82	1.12
397	Vinyl chloride-T3*	75-01-4	20000.00	0.00	1.88	2515.60	2.20	0.77	0.10
398	Methyl ether-T3*	115-10-6	60000.00	0.00	1.88	4780.00	1.62	0.57	0.05
399	Difluoroethane T3	75-37-6	75000.00	0.00	1.88	4499.20	2.40	0.84	0.05
400	Methylphenyldichlorosilane-T3*	149-74-6	2.56	4.00	3.75	0.37	6.60	2.31	0.33
401	Sodium borohydride #(T3)	16940-66-2	4.85	4.00	1.25	0.00	0.00	0.00	0.00
402	Iodine pentafluoride R	7783-66-6	98.07	3.00	3.75	22.00	0.00	0.00	0.00
403	Allyl glycidyl ether #(I)	106-92-3	50.00	3.00	3.75	3.60	3.94	1.38	0.10
404	Dimethyl phosphate #(T3)	107-66-4	30.00	3.00	3.75	1.00	7.25	2.53	0.08
405	Aluminum bromide, anhydrous as AlCl3	7727-15-3	44.84	3.00	3.75	1.00	0.00	0.00	0.00
406	p-tert-Butyltoluene #(I)	98-51-1	100.00	3.00	3.75	0.65	4.60	1.61	0.01
407	Germanium T3	7782-65-2	150.00	2.00	0.63	32994.12	2.66	0.93	204.58
408	Demeton * #(T3) (Systox)	8065-48-3	0.95	5.00	5.00	0.00	0.00	0.00	0.00
409	Aldrin * #(T3)	309-00-2	1.68	4.00	5.00	0.00	0.00	0.00	0.00
410	Dieldrin * #(T3)	60-57-1	3.21	4.00	5.00	0.00	13.20	4.62	0.00
411	Mercuric Salicylate #CT3 of Hg)	5970-32-1	1.08	4.00	5.00	0.00	0.00	0.00	0.00
412	Allyl alcohol	107-18-6	20.00	3.00	2.50	23.80	2.00	0.70	0.83
413	Propionitrile-T3*	107-12-0	37.00	3.00	2.50	40.00	1.90	0.66	0.72
414	Boron trifluoride compound with methyl ether (1:1) T3	353-42-4	7.50	4.00	2.50	46.50	3.93	1.37	8.52
415	Ethyltrichlorosilane T3	115-21-9	6.00	4.00	2.50	27.00	5.60	1.96	8.81
416	Azinphos-ethyl *T3	2642-71-9	10.63	3.00	5.00	0.00	0.00	0.00	0.00
417	Trimethyl phosphite-T3*	121-45-9	750.00	2.00	2.50	24.00	4.30	1.50	0.05
418	Ammonium perchlorate T3	7790-98-9	104.05	2.00	2.50	0.00	0.00	0.00	0.00
419	tert-Butyl acetate #(T3)	540-88-5	1500.00	1.00	2.50	39.75	4.00	1.40	0.04
420	Ethyl chloride #(T3)	75-00-3	3800.00	0.00	2.50	1000.00	2.22	0.78	0.20
421	Methyl formate #(T3)	107-31-3	4500.00	0.00	2.50	476.00	2.07	0.72	0.08
422	Isopropyl chloride-T3*	75-29-6	15000.00	0.00	2.50	444.11	2.70	0.94	0.03
423	Antimony Pentafluoride T3	7783-70-2	8.46	4.00	4.38	10.00	2.20	0.77	0.91
424	Phenyl etherbiphenyl mixture (vapor) #(I)	8004-13-5	10.00	4.00	4.38	0.08	5.70	1.99	0.02
425	Chlorinated camphene * #(T3)	8001-35-2	11.80	3.00	4.38	0.10	0.00	0.00	0.00
426	Xylylne #(T3)	1300-73-8	50.00	3.00	4.38	0.13	4.20	1.47	0.00
427	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	8003-34-7	326.87	2.00	4.38	0.00	0.00	0.00	0.00
428	Mercury oxycyanide as Hg	1335-31-5	1.08	4.00	3.75	0.00	0.00	0.00	0.00
429	Dichlorosilane T3	4109-96-0	75.00	3.00	1.25	1.62	3.50	1.22	0.03
430	Tetramethyllead-T3*	75-74-1	4.57	4.00	1.25	22.00	6.50	2.27	10.94
431	Acetaldehyde	75-07-0	840.00	2.00	1.25	760.00	1.52	0.53	0.48
432	Methoxyfluorane #(IDLH of halogenated ethers-general)	76-38-0	2000.00	1.00	3.75	22.50	4.70	1.64	0.02
433	Vinylidene fluoride-T3*	75-38-7	12500.00	0.00	1.25	26980.00	2.20	0.77	1.66

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
389	Methyl acrylate #(T3)	0.00	1.88	16.00	1.00	46.00	3.00	4.00	0.00	5.88	
390	Vinyl acetate monomer-E3*	0.00	1.88	4.00	0.00	53.00	4.00	4.00	0.00	5.88	
391	Ethyl acrylate	0.00	1.88	16.00	1.00	40.00	3.00	4.00	0.00	5.88	
392	Methyl methacrylate	0.00	1.88	17.00	1.00	48.00	3.00	4.00	0.00	5.88	
393	Perchloryl fluoride #(T3)	3.00	4.88	1.00	0.00	1.00	1.00	1.00	0.00	5.88	
394	Furan T3	3.00	4.88	3.00	0.00	5.00	1.00	1.00	0.00	5.88	
395	Crotonaldehyde	2.00	3.88	6.00	0.00	9.00	2.00	2.00	0.00	5.88	
396	1,3-pentadiene-R*B97	2.00	3.88	7.00	0.00	10.00	2.00	2.00	0.00	5.88	
397	Vinyl chloride-T3*	0.00	1.88	6.00	0.00	63.00	4.00	4.00	0.00	5.88	
398	Methyl ether-T3*	0.00	1.88	15.00	1.00	27.00	3.00	4.00	0.00	5.88	
399	Difluoroethane T3	0.00	1.88	14.00	1.00	15.00	3.00	4.00	0.00	5.88	
400	Methylphenyldichlorosilane-T3*	0.00	3.75	1.00	0.00	6.00	2.00	2.00	0.00	5.75	
401	Sodium borohydride #(T3)	0.00	1.25	13.00	1.00	34.00	3.00	4.00	0.50	5.75	
402	Iodine pentafluoride R	0.00	3.75	2.00	0.00	8.00	2.00	2.00	0.00	5.75	
403	Allyl glycidyl ether #(I)	0.00	3.75	6.00	0.00	8.00	2.00	2.00	0.00	5.75	
404	Dimethyl phosphate #(T3)	0.00	3.75	6.00	0.00	8.00	2.00	2.00	0.00	5.75	
405	Aluminum bromide, anhydrous as AlCl3	0.00	3.75	2.00	0.00	6.00	2.00	2.00	0.00	5.75	
406	p-tert-Butyltoluene #(I)	0.00	3.75	4.00	0.00	6.00	2.00	2.00	0.00	5.75	
407	Germanium T3	3.00	3.63	2.00	0.00	6.00	2.00	2.00	0.00	5.63	
408	Demeton * #(T3) (Systox)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50	
409	Aldrin * #(T3)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50	
410	Dieldrin * #(T3)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50	
411	Mercuric Salicylate #T3 of Hg)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50	
412	Allyl alcohol	0.00	2.50	6.00	0.00	13.00	3.00	3.00	0.00	5.50	
413	Propionitrile-T3*	0.00	2.50	3.00	0.00	14.00	3.00	3.00	0.00	5.50	
414	Boron trifluoride compound with methyl ether (1:1) T3	2.00	4.50	2.00	0.00	5.00	1.00	1.00	0.00	5.50	
415	Ethyltrichlorosilane T3	2.00	4.50	1.00	0.00	2.00	1.00	1.00	0.00	5.50	
416	Azinphos-ethyl *T3	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.50	5.50	
417	Trimethyl phosphite-T3*	0.00	2.50	4.00	0.00	18.00	3.00	3.00	0.00	5.50	
418	Ammonium perchlorate T3	0.00	2.50	2.00	0.00	16.00	3.00	3.00	0.00	5.50	
419	tert-Butyl acetate #(T3)	0.00	2.50	6.00	0.00	17.00	3.00	3.00	0.00	5.50	
420	Ethyl chloride #(T3)	0.00	2.50	8.00	0.00	21.00	3.00	3.00	0.00	5.50	
421	Methyl formate #(T3)	0.00	2.50	8.00	0.00	16.00	3.00	3.00	0.00	5.50	
422	Isopropyl chloride-T3*	0.00	2.50	1.00	0.00	13.00	3.00	3.00	0.00	5.50	
423	Antimony Pentafluoride T3	0.00	4.38	3.00	0.00	4.00	1.00	1.00	0.00	5.38	
424	Phenyl etherbiphenyl mixture (vapor) #(I)	0.00	4.38	3.00	0.00	3.00	1.00	1.00	0.00	5.38	
425	Chlorinated camphene * #(T3)	0.00	4.38	1.00	0.00	1.00	1.00	1.00	0.00	5.38	
426	Xylylne #(T3)	0.00	4.38	4.00	0.00	4.00	1.00	1.00	0.00	5.38	
427	Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG	0.00	4.38	4.00	0.00	4.00	1.00	1.00	0.00	5.38	
428	Mercury oxycyanide as Hg	0.00	3.75	2.00	0.00	2.00	1.00	1.00	0.50	5.25	
429	Dichlorosilane T3	0.00	1.25	12.00	1.00	12.00	3.00	4.00	0.00	5.25	
430	Tetramethyllead-T3*	3.00	4.25	2.00	0.00	2.00	1.00	1.00	0.00	5.25	
431	Acetaldehyde	0.00	1.25	15.00	1.00	49.00	3.00	4.00	0.00	5.25	
432	Methoxyfluorane #(IDLH of halogenated ethers-general)	0.00	3.75	1.00	0.00	3.00	1.00	1.00	0.50	5.25	
433	Vinylidene fluoride-T3*	2.00	3.25	2.00	0.00	8.00	2.00	2.00	0.00	5.25	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
434	Nitroglycerin #(T3)	55-63-0	8.07	4.00	0.63	0.00	7.84	2.74	0.00
435	1,2,3-Trichloropropane #(T3)	96-18-4	100.00	3.00	3.13	2.00	5.08	1.78	0.04
436	Phenyl glycidyl ether #(I)	122-60-1	100.00	3.00	3.13	0.01	4.37	1.53	0.00
437	Isobutyronitrile-E3*	78-82-0	200.00	2.00	3.13	32.10	2.38	0.83	0.13
438	n-Butyl mercaptan #(T3)	109-79-5	500.00	2.00	3.13	35.00	3.10	1.08	0.08
439	Turpentine #(T3)	8006-64-2	800.00	2.00	3.13	13.44	4.69	1.64	0.03
440	Glycidol #(I)	556-52-5	150.00	2.00	3.13	0.90	2.15	0.75	0.00
441	Sulfur pentafluoride #(T3)	5714-22-7	1.00	5.00	5.00	561.00	0.00	0.00	0.00
442	Trithion	786-19-6	0.49	5.00	5.00	0.00	0.00	0.00	0.00
443	Hexachloronaphthalene * #(T3)	1335-87-1	0.15	5.00	5.00	0.00	11.60	4.06	0.00
444	Ronnel #(I)	299-84-3	22.81	3.00	5.00	0.00	0.00	0.00	0.00
445	Trinitrophenol-T3*	88-89-1	8.00	4.00	1.88	1.00	7.90	2.76	0.35
446	Mercuric arsenate #(T3 of Hg)	7784-37-4	1.08	4.00	4.38	0.00	0.00	0.00	0.00
447	Methacrylonitrile-T3*	126-98-7	25.00	3.00	1.88	56.50	2.31	0.81	1.83
448	Crotonaldehyde, (E)- T3	123-73-9	14.00	3.00	1.88	19.00	2.41	0.84	1.14
449	Allyltrichlorosilane, stabilized as allyl chloride	107-37-9	20.00	3.00	1.88	22.80	6.05	2.12	2.41
450	2-methylpropene-T3*	115-11-7	100000.00	0.00	1.88	2140.00	1.90	0.66	0.01
451	Calcium phosphide SC	1305-99-3	1.80	4.00	3.75	0.00	0.00	0.00	0.00
452	Chloroacetaldehyde	107-20-0	9.90	4.00	3.75	0.00	0.00	0.00	0.00
453	Butyltrichlorosilane SC	7521-80-4	33.00	3.00	3.75	10.00	6.50	2.27	0.69
454	5-Methyl 3-heptanol #(I)	541-85-5	100.00	3.00	3.75	2.00	4.40	1.54	0.03
455	Octyltrichlorosilane-A3* (60min)	5283-66-9	33.00	3.00	3.75	0.08	8.55	2.99	0.01
456	Cyclopentadiene #(I)	542-92-7	750.00	2.00	3.75	400.00	0.00	0.00	0.00
457	Ethyl butyl ketone #(T3)	106-35-4	1000.00	2.00	3.75	4.00	3.93	1.37	0.01
458	Methylcyclohexanol #(I)	25639-42-3	500.00	2.00	3.75	2.00	3.90	1.36	0.01
459	o-Methylcyclohexanone #(T3)	583-60-8	600.00	2.00	3.75	1.00	3.86	1.35	0.00
460	Trifluorochloroethylene-E3*	79-38-9	300.00	2.00	0.63	3940.00	4.00	1.40	18.37
461	Methyl acetylene #(T3)	74-99-7	1700.00	1.00	0.63	3952.00	1.40	0.49	1.14
462	Tetrafluoroethylene-E3*	116-14-3	10000.00	0.00	0.63	22800.00	3.87	1.35	3.09
463	Dinitrotoluene * #(T3)	25321-14-6	6.70	4.00	2.50	1.00	6.30	2.20	0.33
464	Phenyltrichlorosilane-T3*	98-13-5	4.62	4.00	2.50	0.45	7.36	2.57	0.25
465	Trinitrotoluene	118-96-7	55.32	3.00	0.00	0.00	0.00	0.00	0.00
466	beta-Chloroprene #(T3)	126-99-8	300.00	2.00	2.50	188.00	3.00	1.05	0.66
467	Mesityl oxide #(T3)	141-79-7	1400.00	1.00	2.50	9.00	3.40	1.19	0.01
468	2-Butene T3	107-01-7	300.00	2.00	2.50	1448.02	1.90	0.66	3.21
469	2-Butene-trans T3	624-64-6	25000.00	0.00	2.50	1592.00	1.94	0.68	0.04
470	2-Butene-cis T3	590-18-1	500000.00	0.00	2.50	1414.00	2.00	0.70	0.00
471	Pentaborane	19624-22-7	0.70	5.00	1.25	171.00	2.20	0.77	187.91
472	Aluminum phosphide *T3	20859-73-8	8.44	4.00	1.25	0.00	0.00	0.00	0.00
473	Ethyleneimine	151-56-4	9.90	4.00	1.25	160.00	1.48	0.52	8.36
474	Vinylidene chloride, inhibited-T3*	75-35-4	600.00	2.00	1.25	500.00	3.25	1.14	0.95
475	Propylene imine	75-55-8	23.00	3.00	1.25	112.00	2.00	0.70	3.41
476	Isoprene-T3*	78-79-5	25000.00	0.00	1.25	493.00	2.35	0.82	0.02
477	o-Chlorobenzylidene malononitrile * #(T3)	2698-41-1	0.26	5.00	3.13	0.00	6.52	2.28	0.00
478	Fluorosulfonic acid T3	7789-21-1	7.33	4.00	3.13	2.50	3.50	1.22	0.42
479	Ethyl phosphonothioic dichloride R	993-43-1	7.50	4.00	3.13	1.45	0.00	0.00	0.00
480	Methyl thiocyanate-T3*	1556-64-9	28.40	3.00	3.13	10.00	0.00	0.00	0.00
481	Hydrazine	302-01-2	35.00	3.00	0.63	10.00	1.10	0.38	0.11
482	Bromine trifluoride T3	7787-71-5	89.30	3.00	3.13	4.85	4.72	1.65	0.09

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
434	Nitroglycerin #(T3)	0.00	0.63	13.00	1.00	22.00	3.00	4.00	0.50	5.13	
435	1,2,3-Trichloropropane #(T3)	0.00	3.13	6.00	0.00	10.00	2.00	2.00	0.00	5.13	
436	Phenyl glycidyl ether #(I)	0.00	3.13	7.00	0.00	10.00	2.00	2.00	0.00	5.13	
437	Isobutyronitrile-E3*	0.00	3.13	3.00	0.00	6.00	2.00	2.00	0.00	5.13	
438	n-Butyl mercaptan #(T3)	0.00	3.13	4.00	0.00	6.00	2.00	2.00	0.00	5.13	
439	Turpentine #(T3)	0.00	3.13	6.00	0.00	9.00	2.00	2.00	0.00	5.13	
440	Glycidol #(I)	0.00	3.13	4.00	0.00	6.00	2.00	2.00	0.00	5.13	
441	Sulfur pentafluoride #(T3)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
442	Trithion	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
443	Hexachloronaphthalene *(T3)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
444	Ronnel #(I)	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	
445	Trinitrophenol-T3*	0.00	1.88	8.00	0.00	18.00	3.00	3.00	0.00	4.88	
446	Mercuric arsenate #(T3 of Hg)	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.50	4.88	
447	Methacrylonitrile-T3*	2.00	3.88	1.00	0.00	1.00	1.00	1.00	0.00	4.88	
448	Crotonaldehyde, (E)- T3	2.00	3.88	1.00	0.00	2.00	1.00	1.00	0.00	4.88	
449	Allyltrichlorosilane, stabilized as allyl chloride	2.00	3.88	1.00	0.00	3.00	1.00	1.00	0.00	4.88	
450	2-methylpropene-T3*	0.00	1.88	3.00	0.00	40.00	3.00	3.00	0.00	4.88	
451	Calcium phosphide SC	0.00	3.75	1.00	0.00	1.00	1.00	1.00	0.00	4.75	
452	Chloroacetaldehyde	0.00	3.75	4.00	0.00	5.00	1.00	1.00	0.00	4.75	
453	Butyltrichlorosilane SC	0.00	3.75	2.00	0.00	4.00	1.00	1.00	0.00	4.75	
454	5-Methyl 3-heptanone #(I)	0.00	3.75	2.00	0.00	3.00	1.00	1.00	0.00	4.75	
455	Octyltrichlorosilane-A3* (60min)	0.00	3.75	3.00	0.00	5.00	1.00	1.00	0.00	4.75	
456	Cyclopentadiene #(I)	0.00	3.75	2.00	0.00	2.00	1.00	1.00	0.00	4.75	
457	Ethyl butyl ketone #(T3)	0.00	3.75	2.00	0.00	4.00	1.00	1.00	0.00	4.75	
458	Methylcyclohexanol #(I)	0.00	3.75	1.00	0.00	1.00	1.00	1.00	0.00	4.75	
459	o-Methylcyclohexanone #(T3)	0.00	3.75	4.00	0.00	5.00	1.00	1.00	0.00	4.75	
460	Trifluorochloroethylene-E3*	3.00	3.63	1.00	0.00	5.00	1.00	1.00	0.00	4.63	
461	Methyl acetylene #(T3)	2.00	2.63	4.00	0.00	7.00	2.00	2.00	0.00	4.63	
462	Tetrafluoroethylene-E3*	2.00	2.63	3.00	0.00	6.00	2.00	2.00	0.00	4.63	
463	Dinitrotoluene * #(T3)	0.00	2.50	6.00	0.00	9.00	2.00	2.00	0.00	4.50	
464	Phenyltrichlorosilane-T3*	0.00	2.50	1.00	0.00	9.00	2.00	2.00	0.00	4.50	
465	Trinitrotoluene	0.00	0.00	11.00	1.00	17.00	3.00	4.00	0.50	4.50	
466	beta-Chloroprene #(T3)	0.00	2.50	4.00	0.00	6.00	2.00	2.00	0.00	4.50	
467	Mesityl oxide #(T3)	0.00	2.50	5.00	0.00	6.00	2.00	2.00	0.00	4.50	
468	2-Butene T3	2.00	4.50	1.00	0.00	0.00	0.00	0.00	0.00	4.50	
469	2-Butene-trans T3	0.00	2.50	1.00	0.00	6.00	2.00	2.00	0.00	4.50	
470	2-Butene-cis T3	0.00	2.50	1.00	0.00	8.00	2.00	2.00	0.00	4.50	
471	Pentaborane	3.00	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.25	
472	Aluminum phosphide *T3	0.00	1.25	2.00	0.00	17.00	3.00	3.00	0.00	4.25	
473	Ethyleneimine	2.00	3.25	3.00	0.00	3.00	1.00	1.00	0.00	4.25	
474	Vinylidene chloride, inhibited-T3*	0.00	1.25	2.00	0.00	12.00	3.00	3.00	0.00	4.25	
475	Propylene imine	2.00	3.25	3.00	0.00	4.00	1.00	1.00	0.00	4.25	
476	Isoprene-T3*	0.00	1.25	6.00	0.00	17.00	3.00	3.00	0.00	4.25	
477	o-Chlorobenzylidene malononitrile * #(T3)	0.00	3.13	1.00	0.00	1.00	1.00	1.00	0.00	4.13	
478	Fluorosulfonic acid T3	0.00	3.13	1.00	0.00	2.00	1.00	1.00	0.00	4.13	
479	Ethyl phosphonothioic dichloride R	0.00	3.13	1.00	0.00	1.00	1.00	1.00	0.00	4.13	
480	Methyl thiocyanate-T3*	0.00	3.13	1.00	0.00	2.00	1.00	1.00	0.00	4.13	
481	Hydrazine	0.00	0.63	9.00	0.00	12.00	3.00	3.00	0.50	4.13	
482	Bromine trifluoride T3	0.00	3.13	2.00	0.00	2.00	1.00	1.00	0.00	4.13	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
483	Dodecyltrichlorosilane Sc	4484-72-41	33.00	3.00	3.13	1.00	4.90	1.71	0.05
484	Nitromethane #(T3)	75-52-5	750.00	2.00	0.63	27.80	2.11	0.74	0.03
485	sec-Amyl acetate #(T3)	626-38-0	1000.00	2.00	3.13	7.00	4.50	1.57	0.01
486	sec-Butyl acetate #(T3)	105-46-4	1500.00	1.00	3.13	10.00	4.00	1.40	0.01
487	2-Hexanone #(T3)	591-78-6	1600.00	1.00	3.13	2.00	3.45	1.21	0.00
488	1,1-Dichloroethane #(T3)	75-34-3	3000.00	0.00	3.13	182.00	3.44	1.20	0.07
489	Tetraethyl lead #(T3)	78-00-2	4.51	4.00	2.50	0.20	8.60	3.01	0.13
490	Ethyl nitrite T3	109-95-5	60.00	3.00	0.00	906.00	2.60	0.91	13.73
491	Methyltrichlorosilane-R*	75-54-7	1200.00	1.00	1.88	351.04	3.97	1.39	0.41
492	Vinyltrichlorosilane-R*	75-94-5	2000.00	1.00	1.88	65.90	5.00	1.75	0.06
493	2-Chloropropylene T3	557-98-2	3500.00	0.00	1.88	816.00	2.60	0.91	0.02
494	Tetramethyl succinonitrile #I)	3333-52-6	5.00	4.00	3.75	0.01	4.70	1.64	0.00
495	Chlordane * #(T3)	57-74-9	5.97	4.00	3.75	0.00	14.00	4.90	0.00
496	sec Hexyl acetate #I)	108-84-9	500.00	2.00	3.75	4.00	5.00	1.75	0.01
497	Decaborane * #(T3)	17702-41-9	3.00	4.00	2.50	0.05	4.20	1.47	0.02
498	Propyltrichlorosilane-A3* (60 min)	141-57-1	33.00	3.00	2.50	15.20	6.12	2.14	0.99
499	Octadecyltrichlorosilane-A3* (60min)	112-04-9	33.00	3.00	2.50	5.00	13.39	4.68	0.71
500	Hexyltrichlorosilane T3	928-65-4	33.00	3.00	2.50	1.25	0.00	0.00	0.00
501	Ethylene glycol dinitrate #I)	628-96-6	12.06	3.00	2.50	0.05	5.24	1.83	0.01
502	Amyltrichlorosilane R	107-72-2	500.00	2.00	2.50	2.05	7.10	2.48	0.01
503	Vinyl toluene #I)	25013-15-4	400.00	2.00	2.50	1.10	4.08	1.43	0.00
504	Cyclopropane T3	75-19-4	60000.00	0.00	2.50	4638.62	1.46	0.51	0.04
505	Dimethylpropane, 2,2- T3	463-82-1	50000.00	0.00	2.50	1100.00	2.48	0.87	0.02
506	Nitroethane #(T3)	79-24-3	1000.00	2.00	1.25	21.00	2.59	0.91	0.02
507	Vinyl ethyl ether-T3*	109-92-2	1500.00	1.00	1.25	560.00	2.89	1.01	0.38
508	Propadiene-T3*	463-49-0	4000.00	0.00	1.25	6551.00	1.40	0.49	0.80
509	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	78-53-5	0.30	5.00	3.13	0.01	0.00	0.00	0.00
510	Chlorodiphenyl (42% chlorine)* #(T3)	53469-21-9	0.47	5.00	3.13	0.00	8.90	3.11	0.01
511	Lithium nitride-T3*	26134-62-3	7.02	4.00	1.88	0.00	0.00	0.00	0.00
512	2-Nitropropane #(T3)	79-46-9	100.00	3.00	1.88	12.90	3.06	1.07	0.14
513	Ethyl mercaptan	75-08-1	360.00	2.00	1.88	442.00	2.14	0.75	0.92
514	1,2-Dichloroethylene #(T3)	540-59-0	1000.00	2.00	1.88	223.00	3.34	1.17	0.26
515	Isopropyl glycidyl ether #I)	4016-14-2	400.00	2.00	1.88	9.40	4.15	1.45	0.03
516	1-Nitropropane #I)	108-03-2	1000.00	2.00	1.88	7.60	3.07	1.07	0.01
517	1-Chloropropylene R	590-21-6	8000.00	0.00	1.88	507.00	0.00	0.00	0.00
518	1-pentene-T3*	109-67-1	30000.00	0.00	1.88	398.25	2.42	0.85	0.01
519	Diethyltrichlorosilane R	1719-53-5	4668.58	0.00	1.88	10.00	5.41	1.89	0.00
520	2-Methyl-1-butene-T3*	563-46-2	500000.00	0.00	1.88	516.00	2.40	0.84	0.00
521	Diglycidyl ether #(T3)	2238-07-5	10.00	4.00	1.25	0.09	3.78	1.32	0.01
522	Magnesium phosphide- Rentokil MSDS*	12057-74-8	2.40	4.00	1.25	0.00	0.00	0.00	0.00
523	Trinitrochlorobenzene-T3*	88-88-0	24.69	3.00	1.25	0.00	0.00	0.00	0.00
524	Vinyl fluoride-T3*	75-02-5	150000.00	0.00	1.25	19119.00	1.60	0.56	0.07
525	Vinyl methyl ether-R*	107-25-5	64000.00	0.00	1.25	1052.00	2.00	0.70	0.01
526	1-Chloro-1-nitropropane #I)	600-25-9	100.00	3.00	1.88	5.80	4.26	1.49	0.09
527	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	18810-58-7	1.38	4.00	0.63	0.00	0.00	0.00	0.00
528	HMX T3	2691-41-0	41.28	3.00	0.63	0.00	0.00	0.00	0.00
529	Ammonium Picrate T3	131-74-8	24.83	3.00	0.63	0.00	0.00	0.00	0.00

Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
483	Dodecyltrichlorosilane Sc	0.00	3.13	1.00	0.00	3.00	1.00	1.00	0.00	4.13	
484	Nitromethane #(T3)	0.00	0.63	7.00	0.00	20.00	3.00	3.00	0.50	4.13	
485	sec-Amyl acetate #(T3)	0.00	3.13	2.00	0.00	2.00	1.00	1.00	0.00	4.13	
486	sec-Butyl acetate #(T3)	0.00	3.13	2.00	0.00	2.00	1.00	1.00	0.00	4.13	
487	2-Hexanone #(T3)	0.00	3.13	2.00	0.00	3.00	1.00	1.00	0.00	4.13	
488	1,1-Dichloroethane #(T3)	0.00	3.13	3.00	0.00	3.00	1.00	1.00	0.00	4.13	
489	Tetraethyl lead #(T3)	0.00	2.50	1.00	0.00	2.00	1.00	1.00	0.50	4.00	
490	Ethyl nitrite T3	3.00	3.00	1.00	0.00	1.00	1.00	1.00	0.00	4.00	
491	Methylidichlorosilane-R*	0.00	1.88	2.00	0.00	9.00	2.00	2.00	0.00	3.88	
492	Vinyltrichlorosilane-R*	0.00	1.88	3.00	0.00	8.00	2.00	2.00	0.00	3.88	
493	2-Chloropropylene T3	0.00	1.88	1.00	0.00	6.00	2.00	2.00	0.00	3.88	
494	Tetramethyl succinonitrile #(I)	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	3.75	
495	Chlordane * #(T3)	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	3.75	
496	sec Hexyl acetate #(I)	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	3.75	
497	Decaborane * #(T3)	0.00	2.50	2.00	0.00	1.00	1.00	1.00	0.00	3.50	
498	Propyltrichlorosilane-A3* (60 min)	0.00	2.50	2.00	0.00	5.00	1.00	1.00	0.00	3.50	
499	Octadecyltrichlorosilane-A3* (60min)	0.00	2.50	2.00	0.00	5.00	1.00	1.00	0.00	3.50	
500	Hexyltrichlorosilane T3	0.00	2.50	2.00	0.00	3.00	1.00	1.00	0.00	3.50	
501	Ethylene glycol dinitrate #(I)	0.00	2.50	3.00	0.00	3.00	1.00	1.00	0.00	3.50	
502	Amyltrichlorosilane R	0.00	2.50	1.00	0.00	2.00	1.00	1.00	0.00	3.50	
503	Vinyl toluene #(I)	0.00	2.50	1.00	0.00	3.00	1.00	1.00	0.00	3.50	
504	Cyclopropane T3	0.00	2.50	1.00	0.00	3.00	1.00	1.00	0.00	3.50	
505	Dimethylpropane, 2,2- T3	0.00	2.50	1.00	0.00	4.00	1.00	1.00	0.00	3.50	
506	Nitroethane #(T3)	0.00	1.25	3.00	0.00	8.00	2.00	2.00	0.00	3.25	
507	Vinyl ethyl ether-T3*	0.00	1.25	3.00	0.00	8.00	2.00	2.00	0.00	3.25	
508	Propadiene-T3*	0.00	1.25	3.00	0.00	6.00	2.00	2.00	0.00	3.25	
509	Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o-T3	0.00	3.13	0.00	0.00	0.00	0.00	0.00	0.00	3.13	
510	Chlorodiphenyl (42% chlorine)* #(T3)	0.00	3.13	0.00	0.00	0.00	0.00	0.00	0.00	3.13	
511	Lithium nitride-T3*	0.00	1.88	1.00	0.00	5.00	1.00	1.00	0.00	2.88	
512	2-Nitropropane #(T3)	0.00	1.88	2.00	0.00	4.00	1.00	1.00	0.00	2.88	
513	Ethyl mercaptan	0.00	1.88	4.00	0.00	5.00	1.00	1.00	0.00	2.88	
514	1,2-Dichloroethylene #(T3)	0.00	1.88	2.00	0.00	2.00	1.00	1.00	0.00	2.88	
515	Isopropyl glycidyl ether #(I)	0.00	1.88	1.00	0.00	1.00	1.00	1.00	0.00	2.88	
516	1-Nitropropane #(I)	0.00	1.88	3.00	0.00	4.00	1.00	1.00	0.00	2.88	
517	1-Chloropropylene R	0.00	1.88	2.00	0.00	2.00	1.00	1.00	0.00	2.88	
518	1-pentene-T3*	0.00	1.88	3.00	0.00	5.00	1.00	1.00	0.00	2.88	
519	Diethyltrichlorosilane R	0.00	1.88	1.00	0.00	2.00	1.00	1.00	0.00	2.88	
520	2-Methyl-1-butene-T3*	0.00	1.88	1.00	0.00	4.00	1.00	1.00	0.00	2.88	
521	Diglycidyl ether #(T3)	0.00	1.25	1.00	0.00	1.00	1.00	1.00	0.00	2.25	
522	Magnesium phosphide- Rentokil MSDS*	0.00	1.25	2.00	0.00	5.00	1.00	1.00	0.00	2.25	
523	Trinitrochlorobenzene-T3*	0.00	1.25	1.00	0.00	1.00	1.00	1.00	0.00	2.25	
524	Vinyl fluoride-T3*	0.00	1.25	1.00	0.00	2.00	1.00	1.00	0.00	2.25	
525	Vinyl methyl ether-R*	0.00	1.25	1.00	0.00	3.00	1.00	1.00	0.00	2.25	
526	1-Chloro-1-nitropropane #(I)	0.00	1.88	2.00	0.00	0.00	0.00	0.00	0.00	1.88	
527	Barium azide, [dry or wetted with < 50 % water] as Na azide T3	0.00	0.63	1.00	0.00	3.00	1.00	1.00	0.00	1.63	
528	HMX T3	0.00	0.63	1.00	0.00	2.00	1.00	1.00	0.00	1.63	
529	Ammonium Picrate T3	0.00	0.63	1.00	0.00	1.00	1.00	1.00	0.00	1.63	

Rank	Chemical	CAS Number	Toxicity Value (in ppm)	Inhalation Ocular Toxicity Score	Stability Score	Vapor Pressure (between 60-80 F)	Vapor Density (Air = 1)	Vapor Density Score (5pt scaled)	(Vp*VD)/Toxicity
530	Ethyl acetylene (as ethylene)	107-00-6	15000.00	0.00	0.63	1201.00	1.93	0.67	0.05
531	Vinyl acetylene-R*	689-97-4	105000.00	0.00	0.63	1350.00	1.80	0.63	0.01
532	n-Propyl nitrate # (T3)	627-13-4	1160.00	1.00	1.25	18.00	3.60	1.26	0.02
533	Diethyleneglycol dinitrate R	693-21-0	0.31	5.00	0.00	0.00	0.00	0.00	0.00
534	Dinitrophenol, Dry or wet T3	25550-58-7 (51-28-5)	3.32	4.00	0.00	0.00	6.30	2.20	0.00



Rank	Chemical	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	DWCP Data				Probability Section		Total Score	
				# of Countries Producing	Production Score	# of Global Distribution Sites	Distribution Score				
							Relative Probability Score	Threat Scores			
530	Ethyl acetylene (as ethylene)	0.00	0.63	2.00	0.00	3.00	1.00	1.00	0.00	1.63	
531	Vinyl acetylene-R*	0.00	0.63	1.00	0.00	1.00	1.00	1.00	0.00	1.63	
532	n-Propyl nitrate #(T3)	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	
533	Diethyleneglycol dinitrate R	0.00	0.00	2.00	0.00	4.00	1.00	1.00	0.00	1.00	
534	Dinitrophenol, Dry or wet T3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



Rank	Chemical	CAS Number	Stability Score	Toxicity/Physical State Score	Toxic (Operational) Hazard Score	Probability Section		Total Score
						Relative Probability Score	Threat Scores	
1	Chlorine	7782-50-5	5.00	3.00	8.00	10.00	5.00	23.00
2	Ammonia	7664-41-7	4.38	2.00	6.38	10.00	5.00	21.38
3	Hydrogen chloride	7647-01-0	4.38	3.00	7.38	10.00	0.50	17.88
4	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	3.75	3.00	6.75	10.00	0.50	17.25
5	Hydrogen fluoride	7664-39-3	4.38	3.00	7.38	7.00	2.50	16.88
6	Sulfur dioxide	7446-09-5	5.00	3.00	8.00	6.00	0.00	14.00
7	Cobalt dichloride #(T3)	7646-79-9	5.00	2.00	7.00	6.00	0.50	13.50
8	Hydrogen bromide	10035-10-6	5.00	3.00	8.00	5.00	0.00	13.00
9	Phosgene	75-44-5	4.38	4.00	8.38	4.00	0.50	12.88
10	Nitric oxide #(I)	10102-43-9	5.00	3.00	8.00	4.00	0.00	12.00
11	Bromine	7726-95-6	5.00	3.00	8.00	4.00	0.00	12.00
12	Phosphorus trichloride	7719-12-2	3.75	3.00	6.75	5.00	0.00	11.75
13	Boron trifluoride *	7637-07-2	4.38	3.00	7.38	4.00	0.00	11.38
14	Phosphoryl Trichloride	10025-87-3	3.75	3.00	6.75	4.00	0.50	11.25
15	Methyl iodide #(E3)	74-88-4	4.38	2.00	6.38	4.00	0.50	10.88
16	Methyl bromide	74-83-9	4.38	2.00	6.38	4.00	0.50	10.88
17	Mercuric nitrate	10045-94-0	4.38	3.00	7.38	3.00	0.50	10.88
18	Nitrogen dioxide	10102-44-0	5.00	3.00	8.00	2.00	0.50	10.50
19	Tributyl phosphate #(T3)	126-73-8	4.38	2.00	6.38	4.00	0.00	10.38
20	Hydrogen sulfide	7783-06-4	2.50	3.00	5.50	4.00	0.50	10.00
21	Titanium tetrachloride-E3*	7550-45-0	3.75	2.00	5.75	4.00	0.00	9.75
22	Silicon tetrafluoride-T3*	7783-61-1	3.75	3.00	6.75	3.00	0.00	9.75
23	Hexafluoroacetone E3	684-16-2	3.75	3.00	6.75	3.00	0.00	9.75
24	Tungsten hexafluoride-T3*	7783-82-6	3.75	3.00	6.75	3.00	0.00	9.75
25	Sulfuryl chloride-T3*	7791-25-5	3.75	3.00	6.75	3.00	0.00	9.75
26	Hydrogen iodide T3	10034-85-2	3.75	3.00	6.75	3.00	0.00	9.75
27	Chlorine dioxide	10049-04-4	2.50	3.00	5.50	4.00	0.00	9.50
28	Fluorine	7782-41-4	2.50	3.00	5.50	4.00	0.00	9.50
29	Toluene-2,4-diisocyanate	584-84-9	3.13	2.00	5.13	4.00	0.00	9.13
30	Methyl chloroformate-T3*	79-22-1	3.13	3.00	6.13	3.00	0.00	9.13
31	Boron tribromide T3	10294-33-4	3.75	2.00	5.75	3.00	0.00	8.75
32	Sulfur trioxide-E3*	7446-11-9	3.75	2.00	5.75	3.00	0.00	8.75
33	Germanium tetrafluoride T3	7783-58-6	3.75	3.00	6.75	2.00	0.00	8.75
34	Arsine	7784-42-1	1.25	5.00	6.25	2.00	0.50	8.75
35	Chloropicrin	76-06-2	3.13	3.00	6.13	2.00	0.50	8.63
36	Propyl chloroformate-T3*	109-61-5	3.13	2.00	5.13	3.00	0.00	8.13
37	Iron, pentacarbonyl- T3	13463-40-6	2.50	3.00	5.50	2.00	0.00	7.50

Rank	Chemical	CAS Number	Stability Score	Toxic (Operational) Hazard Score	Probability Section		Total Score
					Relative Probability Score	Threat Scores	
1	Chlorine	7782-50-5	5.00	8.00	10.00	5.00	23.00
2	Ammonia	7664-41-7	4.38	6.38	10.00	5.00	21.38
3	Hydrogen chloride	7647-01-0	4.38	7.38	10.00	0.50	17.88
4	Formaldehyde (Formalin solution-37% methanol) E3	50-00-0	3.75	6.75	10.00	0.50	17.25
5	Hydrogen fluoride	7664-39-3	4.38	7.38	7.00	2.50	16.88
6	Sulfur dioxide	7446-09-5	5.00	8.00	6.00	0.00	14.00
7	Hydrogen bromide	10035-10-6	5.00	8.00	5.00	0.00	13.00
8	Phosgene	75-44-5	4.38	8.38	4.00	0.50	12.88
9	Methyl bromide	74-83-9	4.38	6.38	4.00	0.50	10.88
10	Nitrogen dioxide	10102-44-0	5.00	8.00	2.00	0.50	10.50
11	Hydrogen sulfide	7783-06-4	2.50	5.50	4.00	0.50	10.00
12	Sulfur trioxide-E3*	7446-11-9	3.75	5.75	3.00	0.00	8.75